

09/841,809

=> d his

(FILE 'HOME' ENTERED AT 09:16:04 ON 15 MAR 2005)

FILE 'STNGUIDE' ENTERED AT 09:16:11 ON 15 MAR 2005

FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A)METAL  
L6 6 S L4 AND L5  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)  
L8 0 S LIOGAND?  
L9 1100976 S LIGAND?  
L10 22884 S L1 AND L2  
L11 188 S L10 AND L9  
L12 12 S L5 AND L11  
L13 11 DUP REM L12 (1 DUPLICATE REMOVED)  
L14 250194 S L10 AND L4 OR L5  
L15 45954 S L9 AND L14  
L16 475804 S MONOLAYER OR OLIGOMER?  
L17 711 S L15 AND L16  
L18 261283 S REDOX  
L19 43 S L17 AND L18  
L20 41 DUP REM L19 (2 DUPLICATES REMOVED)  
E MEADE J M/AU  
E MEADE T J/AU  
L21 1403 S E3-E12  
L22 50 S L5 AND L21  
L23 39 DUP REM L22 (11 DUPLICATES REMOVED)

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NEWS	19 FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005
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NEWS	21 FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	22 FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	23 MAR 02	GBFULL: New full-text patent database on STN
NEWS	24 MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	25 MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS EXPRESS		JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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=> s electrode?  
L1 1014856 ELECTRODE?

=> s array?  
L2 426083 ARRAY?

=> s "solvent accessible transition metal"  
L3 0 "SOLVENT ACCESSIBLE TRANSITION METAL"

=> s "solvent accessible"  
L4 4759 "SOLVENT ACCESSIBLE"

=> s transition (a)metal  
L5 250193 TRANSITION (A) METAL

=> s 14 and 15  
L6 6 L4 AND L5

=> dup rem 16  
PROCESSING COMPLETED FOR L6  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)

=> d 1-5 ibib ab

L7 ANSWER 1 OF 5 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 1

ACCESSION NUMBER: 94:262401 SCISEARCH

THE GENUINE ARTICLE: NH129

TITLE: **TRANSITION-METAL COORDINATION-COMPLEXES AS PROBES OF MESSENGER-RNA STRUCTURE - THE IRE (IRON REGULATORY ELEMENT) OF FERRITIN MESSENGER-RNA AS A CASE-STUDY**

AUTHOR: THEIL E C (Reprint)

CORPORATE SOURCE: N CAROLINA STATE UNIV, DEPT BIOCHEM, NCSU BOX 7622, RALEIGH, NC, 27695 (Reprint)

COUNTRY OF AUTHOR: USA

SOURCE: NEW JOURNAL OF CHEMISTRY, (MAR 1994) Vol. 18, No. 3, pp. 435-441.

ISSN: 1144-0546.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: ENGLISH

REFERENCE COUNT: 34

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB **Transition metal complexes** are being developed as probes for three dimensional RNA structure with a sensitivity far greater than large protein nucleases or small modifying reagents. The IRE, a noncoding, regulatory sequence in ferritin mRNA is a useful example. Fe-EDTA identified protein binding and **solvent accessible** sites, 1,10-phenanthroline-Cu identified sites of Mg-dependent conformational change, Fe-bleomycin identified sites of context dependent stem-loop conformation, and Rh (phen)2(phe)3+ identified tertiary folds, none of which could be deduced from the hairpin loop predicated from secondary structure. The results facilitate both the design of site-directed mutations and analysis of structure by NMR spectroscopy. Uniqueness of three-dimensional RNA structure, e.g. in viruses and engineered gene transcripts important in medicine and agriculture, remains to be exploited as a target for drugs. Knowledge of critical target sites in RNA will be greatly increased by the use of **transition metal complexes** which potentially can define a template of the RNA target itself.

L7 ANSWER 2 OF 5 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1992:507509 HCPLUS  
DOCUMENT NUMBER: 117:107509  
TITLE: DNA-mediated electron transfer and application to  
'biochip' development  
AUTHOR(S): Ho, P. S.  
CORPORATE SOURCE: Dep. Biochem. Biophys., Oregon State Univ., Corvallis,  
OR, USA  
SOURCE: Report (1991), Order No. AD-A239093, 6 pp. Avail.:  
NTIS  
From: Gov. Rep. Announce. Index (U. S.) 1991, 91(23),  
Abstr. No. 165,497

DOCUMENT TYPE: Report  
LANGUAGE: English  
AB The electronic properties of double-stranded DNA were studied with regard  
to determining whether this macromol. can support electron transport  
processes.

This pertains to possibly utilizing the base sequence and secondary  
structure of DNA as a matrix for developing mol. level electronic  
components. Toward these goals, the anisotropic electronic properties of  
DNA single crystals were studied using reflectance spectroscopy and the  
interactions of **transitions metals** with  
double-stranded DNA were examined by x-ray diffraction. A number of  
porphyrin

and acridine-modified DNA mols. were synthesized and a photoflash  
photolysis apparatus for direct study of electron transfer through DNA was  
assembled. In related work, it was shown that the propensity for DNA to  
adopt specific double helical conformations can be predicted from calcns.  
of **solvent accessible** surfaces. From this,  
diffraction quality single crystals of DNA oligomers were obtained.

L7 ANSWER 3 OF 5 NTIS COPYRIGHT 2005 NTIS on STN  
ACCESSION NUMBER: 1991(20):06390  
NTIS ORDER NUMBER: AD-A239 093/8/XAB  
TITLE: DNA-Mediated Electron Transfer and Application to  
'Biochip' Development. Final rept. Jun 88-May 91.  
AUTHOR: Ho, P. S.  
CORPORATE SOURCE: Oregon State Univ., Corvallis. Dept. of Biochemistry  
and Biophysics. (013388096 423378)  
NUMBER OF REPORT: AD-A239 093/8/XAB  
6p; 25 Jul 1991  
NUMBER OF CONTRACT: N00014-88-K-0388  
RR04106  
CONTROLLED TERM: Report  
COUNTRY: United States  
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AB To study the electronic properties of double-stranded DNA as to  
determining whether this macromolecule can support electron transport  
processes. This pertains to possibly utilizing the base sequence and  
secondary structure of DNA as a matrix for developing molecular level  
electronic components. Toward these goals, we have studied the  
anisotropic electronic properties of DNA single crystals using  
reflectance spectroscopy and studied the interactions of  
**transitions metals** with double-stranded DNA by X-ray  
diffraction. We have also synthesized a number of porphyrin and acridine

modified DNA molecules, and assembled a photoflash photolysis apparatus for direct study of electron transfer through DNA. In related work, we have shown that the propensity for DNA to adopt specific double helical conformations can be predicted from calculations of **solvent accessible** surfaces. From this, we were able to obtain diffraction quality single crystals of DNA oligomers in a predictive manner.

L7 ANSWER 4 OF 5 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1990:154413 HCPLUS  
DOCUMENT NUMBER: 112:154413  
TITLE: Shape-selective cleavage of tRNAPhe by transition metal complexes  
AUTHOR(S): Chow, Christine S.; Barton, Jacqueline K.  
CORPORATE SOURCE: Div. Chem. Chem. Eng., California Inst. Technol., Pasadena, CA, 91125, USA  
SOURCE: Journal of the American Chemical Society (1990), 112(7), 2839-41  
CODEN: JACSAT; ISSN: 0002-7863  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Photolysis of a series of **transition metal complexes** promotes cleavage of native, structured RNA at diverse and novel sites based upon shape-selection. Upon irradiation with light, the complexes Ru(phen)32+, Ru(TMP)32+, Rh(phen)2phi3+, and Rh(DIP)33+ (phen = 1,10-phenanthroline; TMP = 3,4,7,8-tetramethyl-1,10-phenanthroline; phi = 9,10-phenanthrenequinone diimine; DIP = 4,7-diphenyl-1,10-phenanthroline) cleave tRNAPhe with comparable efficiency and with analogous products formed as found after cleavage of double-stranded DNA. As on DNA, RNA cleavage by the Rh complexes targets the sugar moiety and occurs through an oxidative pathway, whereas reactions with the Ru complexes, occurring preferentially at guanine residues, are consistent instead with mediation by singlet O. The sites selectively cleaved are based not only upon the photoreactivity but also upon the different binding properties and therefore mol. shapes of the complexes. Ru(TMP)32+ cleaves at a subset of **solvent-accessible** sites cleaved by Ru(phen)32+. Also, different sites of cleavage are found with the 2 Rh complexes although they share an oxidative chemical. In particular, Rh(phen)2phi3+ targets sites of triple base interaction in tRNA, where the major groove is open and accessible. These shape-selective probes, which cleave at unique sites on tRNA, may be usefully applied in probing mutant tRNAs and more generally in delineating the structures of RNA mols.

L7 ANSWER 5 OF 5 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1972:159320 HCPLUS  
DOCUMENT NUMBER: 76:159320  
TITLE: Ligand binding by metalloporphyrins. III. Thermodynamic functions for the addition of substituted pyridines to nickel(II) and zinc(II) porphyrins  
AUTHOR(S): Cole, S. J.; Curthoys, G. C.; Magnusson, E. A.; Phillips, J. N.  
CORPORATE SOURCE: Dep. Chem., Univ. Newcastle, Newcastle, Australia  
SOURCE: Inorganic Chemistry (1972), 11(5), 1024-8  
CODEN: INOCAJ; ISSN: 0020-1669  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Free energy, enthalpy, and entropy changes for the addition of substituted pyridines to various Ni and Zn porphyrins were determined in CHCl<sub>3</sub> and C<sub>6</sub>H<sub>6</sub> solns. The stoichiometry of the reactions indicates formation of mono pyridinates with some Ni porphyrins and bis pyridinates with others, the latter requiring very high ligand concns. In contrast to the situation in

Fe porphyrin pyridinates, the  $\pi$ -acceptor ability of the ligands has little effect on the enthalpy of reaction of the Ni and Zn complexes. The dependence of the enthalpy of reaction on ligand basicity is strong for Ni-porphyrin pyridinates in CHCl<sub>3</sub> and for the corresponding Zn complexes in C<sub>6</sub>H<sub>6</sub> but is less noticeable when these solvents are reversed. Specific solute-solvent interactions are suggested to explain this behavior. In Ni porphyrins H bonding between CHCl<sub>3</sub> and the **solvent-accessible** side of the 5-coordinate Ni porphyrins is probably very sensitive to changes in the metal-ligand bond strength on the opposite side of the porphyrin plane. In agreement with the expectation that Zn compds. will more readily accommodate the forced squarepyramidal structure than Ni, the changes attributed to H-bond effects in CHCl<sub>3</sub> were smaller in the Zn than the Ni compds. studied. In this respect the Zn porphyrins more closely resemble the Fe(II) porphyrins which have been studied previously than do the Ni porphyrins, and interactions between the aromatic porphyrin plane and C<sub>6</sub>H<sub>6</sub> are thought to be more important.

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FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A) METAL  
L6 6 S L4 AND L5  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)

=> s liogand?

L8 0 LIOGAND?

=>

<-----User Break----->

=> s ligand?

L9 1100976 LIGAND?

=> s 11 and 12

L10 22884 L1 AND L2

=> s 110 and 19

L11 188 L10 AND L9

=> s 15 and 111

L12 12 L5 AND L11

=> dup rem 112

PROCESSING COMPLETED FOR L12

L13 11 DUP REM L12 (1 DUPLICATE REMOVED)

=> d 1-11 ibib ab

L13 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:924935 HCAPLUS

DOCUMENT NUMBER: 142:81232

TITLE: Electrochemical Redox Control of Ferrocene Using a Supramolecular Assembly of Ferrocene-Linked C60 Derivative and Metallocetaethylporphyrin **Array** on a Au(111) **Electrode**

AUTHOR(S): Yoshimoto, Soichiro; Saito, Akira; Tsutsumi, Eishi; D'Souza, Francis; Ito, Osamu; Itaya, Kingo

CORPORATE SOURCE: Department of Applied Chemistry, Graduate School of Engineering, Tohoku University, Sendai, 980-8579, Japan

SOURCE: Langmuir (2004), 20(25), 11046-11052  
CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Supramol. assembled layers of ferrocene-linked C60 derivative (C60Fc) and various metal ions coordinated to octaethylporphyrin (MOEP) were formed on the surface of a Au(111) single-crystal **electrode** by immersing the Au substrate successively into a benzene solution containing MOEP and one containing C60Fc mols. The MOEPs used were Zn(II) (ZnOEP), Co(II) (CoOEP), Cu(II) (CuOEP), and Fe(III) chloride (FeCLOEP) of H2OEP (2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphine). The mols. of C60Fc directly attached to the Au(111) **electrode** showed poorly defined electrochem. redox response, whereas a clear electrochem. redox reaction of the ferrocene group in the C60Fc mol. was observed at 0.78 V vs. reversible H **electrode** on ZnOEP, CoOEP, and CuOEP adlayers, but not on the FeCLOEP adlayer. Adlattices of the underlying layer and the top layer of C60Fc were determined by *in situ* scanning tunneling microscopy. Adlayer structures of MOEP were independent of the central metal ion; i.e., MOEP mols. were arranged hexagonally with 2 different orientations. Highly ordered C60Fc **arrays** were formed with 1:1 composition on the ZnOEP-, CoOEP-, and CuOEP-modified Au(111) surface, whereas a disordered structure of C60Fc was found on the FeCLOEP-modified Au(111) surface. The presence of Cl **ligand** was found to prevent the formation of supramolecularly assembled layers with C60Fc mols., resulting in an ill-defined unclear electrochem. response of the Fc group. The well-defined electrochem. response of the Fc group in C60Fc was clearly due to the control of orientation of C60Fc mols.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 11 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 1

ACCESSION NUMBER: 2004:930027 SCISEARCH

THE GENUINE ARTICLE: 861BU

TITLE: Ordered **arrays** of semi-crown **ligands** on an Au(111) **electrode** surface: *in situ* STM study

AUTHOR: Pan G B; Li H J; Yuan Q H; Chen Y J (Reprint); Wan L J; Bai C L

CORPORATE SOURCE: Chinese Acad Sci, Inst Chem, Beijing 100080, Peoples R China (Reprint)

COUNTRY OF AUTHOR: Peoples R China

SOURCE: SCIENCE IN CHINA SERIES B-CHEMISTRY, (AUG 2004) Vol. 47, No. 4, pp. 320-325.  
Publisher: SCIENCE CHINA PRESS, 16 DONGHUANGCHENGEN NORTH ST, BEIJING 100717, PEOPLES R CHINA.  
ISSN: 1006-9291.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 17

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB In *situ* scanning tunneling microscopy (STM) and cyclic voltammetry were

employed to investigate the adsorption structures of three semi-crown ligands on an Au(111) surface under the potential control. It is found that all the molecules formed ordered arrays in 0.1 mol/L HClO<sub>4</sub> solution, although their geometric structures are complex and asymmetric. The driving force was supposed to come from the balance between intermolecular and molecule-substrate interactions. High resolution STM images revealed internal molecular structures, orientations and packing arrangements in the ordered adlayers. The results are useful for preparing ordered arrays of transition metal-mediated nanostructures.

L13 ANSWER 3 OF 11 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2004:293057 SCISEARCH  
THE GENUINE ARTICLE: 804NI  
TITLE: Molecular insights for how preferred oxoanions bind to and stabilize transition-metal nanoclusters: a tridentate, C-3 symmetry, lattice size-matching binding model  
AUTHOR: Finke R G (Reprint); Ozkar S  
CORPORATE SOURCE: Colorado State Univ, Dept Chem, Ft Collins, CO 80523 USA (Reprint); Middle E Tech Univ, Dept Chem, TR-06531 Ankara, Turkey  
COUNTRY OF AUTHOR: USA; Turkey  
SOURCE: COORDINATION CHEMISTRY REVIEWS, (JAN 2004) Vol. 248, No. 1-2, pp. 135-146.  
Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND.  
ISSN: 0010-8545.  
DOCUMENT TYPE: General Review; Journal  
LANGUAGE: English  
REFERENCE COUNT: 78

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB The recent discovery of an anion efficacy series for the formation and stabilization of transition-metal Ir(0)(n) nanoclusters, specifically P<sub>2</sub>W<sub>15</sub>Nb<sub>3</sub>O<sub>62</sub>9- similar to SiW<sub>9</sub>Nb<sub>3</sub>O<sub>40</sub>7- > C<sub>6</sub>H<sub>5</sub>O<sub>7</sub>3- > [-CH<sub>2</sub>CH(CO<sub>2</sub>-)-](n)(n-) similar to OAc- similar to P<sub>3</sub>O<sub>9</sub>3- similar to Cl- similar to OH-- that is, polyoxoanions > citrate(3-) > other commonly employed nanocluster stabilizing anions, raises the question of what are the underlying factors behind this preferred order of stabilizers? A brief discussion of three relevant nanocluster papers in the literature, plus a concise summary of the relevant interfacial electrochemistry and surface science literature of C-3 symmetry SO<sub>4</sub>2- binding to Ir(111) (as well as to Rh(111), Pt(111), Au(111) and Cu(1111)), are presented first as key background for the lattice size-matching model which follows in which tridentate anions coordinate to transition-metal nanocluster surfaces. A table of nanocluster formation and stabilization data for tridentate oxoanion stabilizers is presented, results which allow two fundamental, previously unavailable, important insights (out of 10 total insights): (i) the premier anionic stabilizers of transition-metal(0) nanoclusters present a tridentate, facial array of oxygen atoms for coordination to the metal(0) surface; and (ii) the preferred tridentate oxoanion stabilizers of nanoclusters are those that have the best match between the ligand O-O and surface Ir-Ir distances, all other factors being equal-- that is, there is a previously unappreciated, geometric, anion-to-surface-metal lattice-size-matching component to the best anionic stabilizers of transition-metal nanoclusters. These are the first molecular-level insights for how the to-date premier tridentate, anionic stabilizers of transition-metal nanoclusters achieve their higher level of stabilization-- a non-trivial advance since there was a lack previously of molecular-level insights into how transition-metal nanoclusters are stabilized. Four

experimentally testable predictions of the C-3 symmetry, lattice size-matching model for nanocluster M(111) surfaces are presented and briefly discussed. One key prediction is that HPO42- is a heretofore unappreciated simple, effective and readily available stabilizer of Ir(0) and other **transition-metal** nanoclusters where there is a lattice-size match between the O-O and the surface M-M distances. Recent experimental evidence is summarized revealing that this prediction is, in fact, trite—that is, the third key, new finding of this work is (iii) the first rational design of a new nanocluster stabilizer, HPO42-, one shown to be as good a stabilizer as the common nanocluster stabilizer citrate(3-). The C-3 symmetry, lattice size-matching model is significant in seven additional ways which are detailed in the text and summary which follows. (C) 2003 Elsevier B.V. All rights reserved.

L13 ANSWER 4 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:793411 HCPLUS  
DOCUMENT NUMBER: 139:287272  
TITLE: Electrochemical detection of nucleic acid hybridization using probe **arrays** immobilized on **electrodes**  
INVENTOR(S): Hartwich, Gerhard  
PATENT ASSIGNEE(S): Friz Biochem GmbH, Germany  
SOURCE: Ger. Offen., 8 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10212958	A1	20031009	DE 2002-10212958	20020322
PRIORITY APPLN. INFO.:			DE 2002-10212958	20020322

AB A procedure for the electrochem. detection of nucleic acid hybridization using microarrays immobilized on **electrode** surfaces is described. An **electrode**, such as a gold-coated mica, is used as the surface on which a microarray is immobilized. The **array** is then hybridized with an excess of sample nucleic acids and hybridization is detected by measuring changes in redox potential using an indicator such as a redox dye or a **transition metal** salt.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:634112 HCPLUS  
TITLE: Bio-inspired sensor based on bioinorganic model complexes and **array** of carbon nanotube **electrodes**  
AUTHOR(S): Roy, Sudeshna; Jessica, Koehne; Mascharak, Pradip K.; Nguyen, Cattien V.; Meyyappan, M.  
CORPORATE SOURCE: Center for Nanotechnology, ELORET Corp./NASA Ames Research Center, Moffett Field, CA, 94035, USA  
SOURCE: Abstracts of Papers, 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003 (2003), INOR-254. American Chemical Society: Washington, D. C.  
CODEN: 69EKY9  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English  
AB The last few decades have seen tremendous progress in the synthesis of functional and structural models of inorg. complexes relating to biol. Numerous models of active sites of metallo-enzymes and metallo-drugs have been successfully synthesized. In this paper we extend bioinorg. chemical

with nanotechnol. by chemical coupling of the bio-inspired transition -metal model complexes to carbon nanotube based electrodes. The ultimate goal here is to create a functional model of metallo-enzymes that have elec. addressable metal active sites. In preliminary studies, we have used Co based complexes with varying ligand compns. for this purpose, as Co is both redox-active and known to bind/activate oxygen, in similar manner to oxygenase family of enzymes. The complexes are tethered to an array of chemical functionalized oxidatively opened carbon nanotubes. Carbon nanotube based electrodes are robust, have well-defined geometry and can be fabricated in high yield. These properties have also encouraged us to probe the use of functionalized carbon nanotubes as electrochem. sensors for small mols. like H<sub>2</sub>O, O<sub>2</sub>, ROOR and NO. This part of the study therefore represents a novel and versatile route to sensitive detection of trace amts. of these mols. and shows great promise for expansion to include various other chemical and biochem. moieties.

L13 ANSWER 6 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:435309 HCPLUS  
 DOCUMENT NUMBER: 135:43123  
 TITLE: Methods and compositions relating to electrical detection of nucleic acid hybridization or peptide binding preferably using AC impedance  
 INVENTOR(S): Choong, Vi-en; Gallagher, Sean; Gaskin, Mike; Li, Changming; Maracas, George; Shi, Song  
 PATENT ASSIGNEE(S): Motorola, Inc., USA  
 SOURCE: PCT Int. Appl., 63 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042508	A2	20010614	WO 2000-US33497	20001211
WO 2001042508	A3	20020314		
			W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
			RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
US 2002051975	A1	20020502	US 1999-458533	19991209
US 2002064775	A1	20020530	US 1999-459685	19991213
US 6518024	B2	20030211		
CA 2393733	AA	20010614	CA 2000-2393733	20001211
EP 1238114	A2	20020911	EP 2000-993326	20001211
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	
JP 2003516165	T2	20030513	JP 2001-544379	20001211
US 2003096283	A1	20030522	US 2002-259532	20020927
US 2003209432	A1	20031113	US 2003-149319	20030228
PRIORITY APPLN. INFO.:			US 1999-458501	A 19991209
			US 1999-458533	A 19991209
			US 1999-459685	A 19991213
			WO 2000-US33497	W 20001211

AB This invention relates to the elec. detection of mol. interactions between biol. mols. The method generally rely on the mol. interactions such as nucleic acid hybridization or protein-protein (for example,

antigen-antibody) binding reactions done on solid supports using **arrays** of peptides or oligonucleotides for capture binding **ligands**. As a result of these interactions, some electronic property of the system changes, and detection is achieved. In a preferred embodiment, the methods of the invention utilize AC impedance for the detection. In some embodiments, no electrochem. or other label moieties are used. In others, electrochem. active (ECA) labels are used to detect reactions on hydrogel **arrays**, including genotyping reactions such as the single base extension reaction.

L13 ANSWER 7 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2001:314168 HCPLUS  
DOCUMENT NUMBER: 134:327946  
TITLE: Ordered **arrays** via metal-initiated self-assembly of **ligand** containing dendrimers and bridging **ligands**  
INVENTOR(S): Diaz, Diego; Storrier, Gregory D.; Takada, Kazutake; Bernhard, Stefan; Abruna, Hector D.  
PATENT ASSIGNEE(S): Cornell Research Foundation, Inc., USA  
SOURCE: U.S., 9 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6224935	B1	20010501	US 2000-488927	20000121
PRIORITY APPLN. INFO.:			US 1999-117644P	P 19990128

AB An ordered film is formed on a surface by reacting (a) dendrimer or bridging **ligand** functionalized for reaction with **transition metal** ions (e.g., terpyridyl-pendant poly-amido amine starburst dendrimers or 1,4-bis[4,4"-bis(1,1-dimethylethyl)-2,2':6'2"-terpyridine-4'-yl]benzene), dissolved in H<sub>2</sub>O immiscible solvent, with (b) **transition metal** ions dissolved in H<sub>2</sub>O, on the surface. This method gave films useful, for example, as electron transfer mediators, other electronic devices, catalysts, sensors, and electrochromic devices.

REFERENCE COUNT: . 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1998:684642 HCPLUS  
DOCUMENT NUMBER: 130:19730  
TITLE: Manufacture of electron emitter devices, electron sources with electron emitter devices, and manufacture of imaging devices  
INVENTOR(S): Tomita, Yoshinori  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10283920	A2	19981023	JP 1997-105444	19970409
JP 3592030	B2	20041124		

PRIORITY APPLN. INFO.: JP 1997-105444 19970409  
AB The title process comprises application of drips of a solution which contains

a metal salt peptide compound from a peptide (e.g., as chelate **ligands**) formed by condensation of 2 amino acids, onto desired positions using a bubble-jet device in preparation of an electron-emitting conductive film connected to opposite device **electrodes**. The emitter may be a surface conduction type, and 1 of the opposite device **electrodes** is connected to a wiring and the other is connected to the other wiring to form **arrays** of the emitters to a ladder shape or a matrix for the electron source, and the imaging device has a luminescent panel and a driving circuit to control voltages being applied to the electron source based on outer signals.

L13 ANSWER 9 OF 11 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 96:531443 SCISEARCH  
THE GENUINE ARTICLE: UW625  
TITLE: NOVEL, SELECTIVE AND COOPERATIVE ASSEMBLY OF CYCLODEXTRINS AROUND [1,8-BIS(PYRIDIN-2-YL)-3,6-DITHIAOCTANE] COPPER(II)  
AUTHOR: USHA S; PALANIANDAVAR M (Reprint)  
CORPORATE SOURCE: BHARATHIDASAN UNIV, DEPT CHEM, TIRUCHCHIRAPPALLI 620024, INDIA (Reprint); BHARATHIDASAN UNIV, DEPT CHEM, TIRUCHCHIRAPPALLI 620024, INDIA  
COUNTRY OF AUTHOR: INDIA  
SOURCE: JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS, (07 JUL 1996) No. 13, pp. 2609-2615.  
ISSN: 0300-9246.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 55

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB The redox chemistry of  $[\text{CuL}]^{(2+)}$  [ $\text{L} = \text{pdto} = 1,8\text{-bis(pyridin-2-yl)-3,6-dithiaoctane}$ ,  $\text{bbdo} = 1,8\text{-bis(benzimidazol-2-yl)-3,6-dithiaoctane}$ ,  $\text{pttn} = 1,9\text{-bis(pyridin-2-yl)-2,5,8-trithianonane}$  or  $\text{pttu} = 1,11\text{-bis(pyridin-2-yl)-3,6,9-trithiaundecane}$ ] in the presence of alpha-, beta- and gamma-cyclodextrins (cd) in aqueous solution has been extensively investigated by cyclic and differential pulse voltammetric techniques. The addition of cyclodextrins to the complexes results in a substantial decrease in peak currents rather than in peak potentials. The  $i(\text{pa})$  rather than  $i(\text{pc})$  or  $\Delta E(\text{p})$  or  $E(1/2)$  is very sensitive to the variation in the cyclodextrin concentration. The couple  $\text{Cu-II-Cu-I}$  of  $[\text{Cu}(\text{pdto})]^{(2+)}$  tends to become reversible, as shown by the decrease in  $\Delta E(\text{p})$  and that of  $i(\text{pa})/i(\text{pc})$  towards unity. Plots of  $i(\text{pa})$ ,  $i(\text{pc})$ ,  $E(\text{pa})$  and  $\Delta E(\text{p})$  vs. the number of moles of cyclodextrin show sharp inflections, interestingly at 5, 4 and 3 mol of alpha-, beta- and gamma-cd respectively. These limiting values do not correspond to the usual inclusion complex formation by cyclodextrins but to the formation of novel and regular **arrays** around the complex, the number of molecules in the **array** being dictated by the size of the cyclodextrin. This also illustrates the prevention of adsorption of  $[\text{Cu}(\text{pdto})]^{(+)}$  on the glassy carbon **electrode**. For the other complexes the changes in redox properties in the presence of cyclodextrins are not as regular and significant. Plots of changes in  $i(\text{pa})$  and  $i(\text{pc})$  vs. cyclodextrin concentration give Hill's coefficients greater than unity (1.3-2.1). The values of  $K_{-+}/K_{-2+}$  for all the complexes and  $K_{\text{a}}(K_{-2+})$  for the complex formation of  $[\text{Cu}(\text{pdto})]^{(2+)}$  with cyclodextrins have been determined and discussed. Significant reduction or enhancement in  $\epsilon(\text{max})$  values has been observed both for the **ligand**-field and charge-transfer bands in the presence of all three cyclodextrins.

L13 ANSWER 10 OF 11 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 93:544043 SCISEARCH  
THE GENUINE ARTICLE: LU165

TITLE: ELECTROCHEMICAL STUDIES OF ORGANOMETALLIC COMPOUNDS .9.  
ELECTROCHEMICAL PREPARATION AND CHARACTERIZATION OF  
BINUCLEAR PALLADIUM(I) COMPLEXES CONTAINING AROMATIC  
ISOCYANIDE AND CHELATING DIPHOSPHINE LIGANDS

AUTHOR: TANASE T; KAWAHARA K; UKAJI H; KOBAYASHI K; YAMAZAKI H;  
YAMAMOTO Y (Reprint)

CORPORATE SOURCE: TOHO UNIV, FAC SCI, DEPT CHEM, FUNABASHI, CHIBA 274, JAPAN

COUNTRY OF AUTHOR: JAPAN

SOURCE: INORGANIC CHEMISTRY, (18 AUG 1993) Vol. 32, No. 17, pp.  
3682-3688.  
ISSN: 0020-1669.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: ENGLISH

REFERENCE COUNT: 41

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB A controlled-potential electrolysis was performed on mononuclear palladium(II) complexes containing aromatic isocyanide (RNC) and diphosphine (diphos) **ligands**,  $[\text{Pd}(\text{diphos})(\text{RNC})_2](\text{PF}_6)_2$  (3) (R = 2,6-dimethylphenyl or 2,4,6-trimethylphenyl, diphos = cis-1,2-bis(diphenylphosphino)ethene (dppe), 1,2-bis(diphenylphosphino)ethane (dppe), 1,3-bis(diphenylphosphino)propane(dppp), or 1,4-bis(diphenylphosphino)butane(dppb)), which were derived from the reaction of  $\text{PdCl}_2(\text{COD})$  with diphos, RNC, and  $\text{NH}_4\text{PF}_6$ . A controlled-potential electrolysis of the complex 3 at a platinum-plate **electrode** consumed 1 F mol<sup>-1</sup> in acetonitrile at -1.6 V (vs  $\text{Cp}_2\text{Fe}/\text{CP}_2\text{Fe}^+$ ), which gave a binuclear palladium(I) complex,  $[\text{Pd}_2(\text{diphos})_2(\text{RNC})_2](\text{PF}_6)_2$  (6). They were characterized by IR, electronic, and H-1 and P-31{H-1} NMR spectroscopies and X-ray crystallographic and EXAFS (extended X-ray absorption fine structure) analysis. The complex 6a (R = 2,6-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, diphos = dppe) crystallizes in the triclinic system, space group P1BAR, with a = 21.346(5) angstrom, b = 14.798(3) angstrom, c = 12.498(3) angstrom, alpha = 71.40(2)-degrees, beta = 103.14(2)-degrees, gamma = 82.92(2)-degrees, and Z = 2 (R = 0.064 and R(w) = 0.075 for 7052 independent reflections with I > 2.5sigma(I)), and the complex 6e (R = 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>, diphos = dppp) crystallizes in the monoclinic system, space group P2(1)/a, with a = 25.963(11) angstrom, b = 19.247(4) angstrom, c = 14.963(9) angstrom, beta = 101.49(4)-degrees, and Z = 4 (R = 0.055 and R(w) = 0.058 for 6885 independent reflections with I > 1.5sigma(I)). The complexes 6 consist of two palladium atoms, each of them being coordinated by one isocyanide, one diphosphine, and the neighboring palladium atom in a square planar **array**. The diphosphines acted as chelating **ligands**. The lengths of the Pd-Pd bond fall within the range 2.59-2.62 angstrom, indicating that the Pd-Pd bond was hardly affected by the length of carbon chains of chelating diphosphines.

L13 ANSWER 11 OF 11 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1991:160323 HCPLUS  
DOCUMENT NUMBER: 114:160323  
TITLE: Wholly microfabricated biosensors, and manufacture and use thereof  
INVENTOR(S): Cozzette, Stephen N.; Davis, Graham; Itak, Jeanne A.; Lauks, Imants R.; Mier, Randall M.; Piznik, Sylvia; Smit, Nicolaas; Steiner, Susan J.; Van der Werf, Paul; Wieck, Henry J.  
PATENT ASSIGNEE(S): I-Stat Corp., USA  
SOURCE: PCT Int. Appl., 195 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9005910	A1	19900531	WO 1989-US5227	19891112
W: JP, KR				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
US 5200051	A	19930406	US 1989-432714	19891107
EP 442969	A1	19910828	EP 1990-900548	19891113
EP 442969	B1	20020227		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 04503249	T2	19920611	JP 1990-500757	19891113
JP 3105919	B2	20001106		
AT 213833	E	20020315	AT 1990-900548	19891113
CA 2002848	AA	19900514	CA 1989-2002848	19891114
CA 2002848	C	19990831		
CA 2221178	C	20010123	CA 1989-2221178	19891114
US 5063081	A	19911105	US 1990-567870	19900815
US 5212050	A	19930518	US 1990-568441	19900815
US 5466575	A	19951114	US 1992-943345	19920910
US 5554339	A	19960910	US 1993-109507	19930819
US 5837446	A	19981117	US 1995-482517	19950607
US 5837454	A	19981117	US 1995-484095	19950607
US 6306594	B1	20011023	US 1998-193370	19981117
JP 2000065791	A2	20000303	JP 1999-38753	19990217
JP 3137612	B2	20010226		
US 2002090738	A1	20020711	US 2001-941661	20010830
PRIORITY APPLN. INFO.:			US 1988-270171	A 19881114
			US 1989-381223	A 19890713
			US 1989-432714	19891107
			JP 1990-500757	A3 19891113
			WO 1989-US5227	W 19891113
			CA 1989-2002848	A3 19891114
			US 1992-943345	A3 19920910
			US 1995-484095	A3 19950607
			US 1998-193370	A1 19981117

OTHER SOURCE(S): MARPAT 114:160323

AB A microfabricated biosensor which may be uniformly mass produced comprises (a) a base sensor (e.g. an electrochem. transducer); (b) a permselective layer (e.g. a polymer film) optionally containing an ionophore, superimposed over at least part of layer (a) and sufficiently thick to pass mols. of mol. weight  $\leq 50$  and exclude mols. of mol. weight  $\geq 120$ ; and (c) a biolayer covering at least part of layer (b). The biolayer comprises (i) a bioactive mol. which selectively interacts with an analyte and (ii) a support matrix derived from a photoformable proteinaceous mixture and/or a film-forming latex through which the analyte can permeate. An electrolyte layer may be interposed between layers (a) and (b). Layer (c) may addnl. be covered by a layer which attenuates analyte transport and a photoresist cap. Layer (b) prevents electroactive interfering species from undergoing redox reactions at the indicator **electrode**. Methods for conducting assays (e.g. immunoassays) using the sensors are described. Thus, the base sensor for a glucose sensor comprised an **array** of unit cells on a Si wafer; each unit cell consisted of an Ag/AgCl reference/counter **electrode** and 2 Ir catalytic **electrodes** prepared by plasma deposition or sputtering and standard lithog. techniques including spin-coating with a pos. photoresist. Layer (b) was prepared by spin-coating an alc. solution of N-(2-aminoethyl)-3-aminopropyltrimethoxysilane onto the wafer and baking. Layer (c) was prepared from a mixture of fish gelatin and ferric ammonium citrate (photoinitiator) to which were added glucose oxidase, crosslinking agent (N,N'-methylenebisacrylamide), and a sugar alc. (to alter the porosity). An attenuation layer contained dimethylsiloxane-bisphenol A carbonate copolymer.

=> d his

(FILE 'HOME' ENTERED AT 09:16:04 ON 15 MAR 2005)

FILE 'STNGUIDE' ENTERED AT 09:16:11 ON 15 MAR 2005

FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A)METAL  
L6 6 S L4 AND L5  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)  
L8 0 S LIOGAND?  
L9 1100976 S LIGAND?  
L10 22884 S L1 AND L2  
L11 188 S L10 AND L9  
L12 12 S L5 AND L11  
L13 11 DUP REM L12 (1 DUPLICATE REMOVED)

=> s 110 and 14 or 15

L14 250194 L10 AND L4 OR L5

=> s 19 and 114

L15 45954 L9 AND L14

=> s monolayer or oligomer?

L16 475804 MONOLAYER OR OLIGOMER?

=> s 115 and 116

L17 711 L15 AND L16

=> s redox

L18 261283 REDOX

=> s 117 and 118

L19 43 L17 AND L18

=> dup rem 119

PROCESSING COMPLETED FOR L19

L20 41 DUP REM L19 (2 DUPLICATES REMOVED)

=> d 1-41 ibib

L20 ANSWER 1 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2004:741101 SCISEARCH

THE GENUINE ARTICLE: 844VX

TITLE: Ruthenium(II) dipyrridoquinoxaline-norbornene: Synthesis, properties, crystal structure, and use as a ROMP monomer  
AUTHOR: Rezvani A; Bazzi H S; Chen B Z; Rakotondradany F; Sleiman H F (Reprint)

CORPORATE SOURCE: McGill Univ, Dept Chem, 801 Sherbrooke St W, Montreal, PQ H3A 2K6, Canada (Reprint); McGill Univ, Dept Chem, Montreal, PQ H3A 2K6, Canada

COUNTRY OF AUTHOR: Canada

SOURCE: INORGANIC CHEMISTRY, (9 AUG 2004) Vol. 43, No. 16, pp. 5112-5119.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW,

WASHINGTON, DC 20036 USA.

ISSN: 0020-1669.

DOCUMENT TYPE:

Article; Journal

LANGUAGE:

English

REFERENCE COUNT:

53

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 2 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2003:202907 HCAPLUS  
DOCUMENT NUMBER: 138:201309  
TITLE: Bioelectronic sensors and methods of using same in analyte detection  
INVENTOR(S): Hellenga, Homme W.; Conrad, David W.; Benson, David E.  
PATENT ASSIGNEE(S): Duke University, USA  
SOURCE: PCT Int. Appl., 38 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003021247	A1	20030313	WO 2002-US27279	20020828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003129622	A1	20030710	US 2002-229286	20020828
EP 1421371	A1	20040526	EP 2002-773249	20020828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005502045	T2	20050120	JP 2003-525280	20020828
PRIORITY APPLN. INFO.:			US 2001-315036P	P 20010828
			WO 2002-US27279	W 20020828
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L20 ANSWER 3 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:460046 SCISEARCH

THE GENUINE ARTICLE: 679QF

TITLE: Kinetics of electron transfer at Pt nanostructured film electrodes

AUTHOR: Horswell S L; O'Neil I A; Schiffrian D J (Reprint)

CORPORATE SOURCE: Univ Liverpool, Dept Chem, Ctr Nanoscale Sci, Liverpool L69 7DZ, Merseyside, England (Reprint)

COUNTRY OF AUTHOR: England

SOURCE: JOURNAL OF PHYSICAL CHEMISTRY B, (22 MAY 2003) Vol. 107, No. 20, pp. 4844-4854.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA.

ISSN: 1520-6106.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 93

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 4 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2003:631091 SCISEARCH

THE GENUINE ARTICLE: 700BU

TITLE: Synthesis, complexation, and coordination  
oligomerization of 1,8-pyrazine-capped  
5,12-dioxocyclams

AUTHOR: Hegedus L S (Reprint); Sundermann M J; Dorhout P K

CORPORATE SOURCE: Colorado State Univ, Dept Chem, Ft Collins, CO 80523 USA  
(Reprint)

COUNTRY OF AUTHOR: USA

SOURCE: INORGANIC CHEMISTRY, (14 JUL 2003) Vol. 42, No. 14, pp.  
4346-4354.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW,  
WASHINGTON, DC 20036 USA.

ISSN: 0020-1669.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 58

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 5 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2003:412979 SCISEARCH

THE GENUINE ARTICLE: 676BV

TITLE: Photophysics and photoinduced electron-transfer reactivity  
of ruthenium(II) complexes with oligo(thiophene-  
bipyridine) ligands

AUTHOR: Liu Y; De Nicola A; Reiff O; Ziessel R; Schanze F S  
(Reprint)

CORPORATE SOURCE: Univ Strasbourg 1, Ecole Chim Polymers Mat, Lab Chim Mol,  
25 Rue Becquerel, F-67087 Strasbourg 02, France (Reprint);  
Univ Strasbourg 1, Ecole Chim Polymers Mat, Lab Chim Mol,  
F-67087 Strasbourg 02, France; Univ Florida, Dept Chem,  
Gainesville, FL 32611 USA

COUNTRY OF AUTHOR: France; USA

SOURCE: JOURNAL OF PHYSICAL CHEMISTRY A, (8 MAY 2003) Vol. 107,  
No. 18, pp. 3476-3485.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW,  
WASHINGTON, DC 20036 USA.

ISSN: 1089-5639.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 63

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 6 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2003:219419 SCISEARCH

THE GENUINE ARTICLE: 649YP

TITLE: Nanoscopic assemblies between supramolecular redox  
active metallodendrons and gold nanoparticles: Synthesis,  
characterization, and selective recognition of H<sub>2</sub>PO<sub>4</sub><sup>-</sup>,  
HSO<sub>4</sub><sup>-</sup>, and adenosine-5'-triphosphate (ATP(2-)) anions

AUTHOR: Daniel M C; Ruiz J; Nlate S; Blais J C; Astruc D (Reprint)  
Catalyse, F-33405 Talence, France (Reprint); Univ Paris  
06, UMR CNRS 7613, LCSOB, F-75252 Paris, France

COUNTRY OF AUTHOR: France

SOURCE: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (5 MAR 2003)  
Vol. 125, No. 9, pp. 2617-2628.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW,  
WASHINGTON, DC 20036 USA.

ISSN: 0002-7863.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 89

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 7 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2003:212712 SCISEARCH

THE GENUINE ARTICLE: 651VM

TITLE: Synthetic, spectroscopic and olefin  
oligomerisation studies on nickel and palladium  
complexes containing ferrocene substituted nitrogen donor  
ligands

AUTHOR: Gibson V C (Reprint); Halliwell C M; Long N J; Oxford P J;  
Smith A M; White A J P; Williams D J

CORPORATE SOURCE: Univ London Imperial Coll Sci Technol & Med, Exhibit Rd,  
London SW7 2AY, England (Reprint); Univ London Imperial  
Coll Sci Technol & Med, London SW7 2AY, England

COUNTRY OF AUTHOR: England

SOURCE: DALTON TRANSACTIONS, (FEB 2003) NO. 5, pp. 918-926.

Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE,  
SCIENCE PARK, MILTON RD, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND

ISSN: 1477-9226.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 41

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 8 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2003:679218 SCISEARCH

THE GENUINE ARTICLE: 706UY

TITLE: Electrochemical investigations of oligomers and  
polymers containing ruthenium- and iron-arene complexes  
de Denus C R (Reprint); Barker P; Toner J; McKevitt S;  
Todd E K; Abd-El-Aziz A S

AUTHOR: Hobart & William Smith Coll, Dept Chem, Geneva, NY 14456  
USA (Reprint); Univ Winnipeg, Dept Chem, Winnipeg, MB R3B  
2E9, Canada

COUNTRY OF AUTHOR: USA; Canada

SOURCE: MACROMOLECULAR SYMPOSIA, (JUN 2003) Vol. 196, pp. 113-123.  
Publisher: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61,  
D-69451 WEINHEIM, GERMANY.

ISSN: 1022-1360.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 49

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 9 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:367209 HCPLUS

DOCUMENT NUMBER: 136:366084

TITLE: Monolayer and electrode for detecting a

label-bearing target and method of use thereof

INVENTOR(S): Eckhardt, Allen E.; Mikulecky, Jill C.; Napier, Mary  
E.; Thomas, Robert S.; Thorp, H. Holden

PATENT ASSIGNEE(S): The University of North Carolina at Chapel Hill, USA;  
Xanthon, Inc.

SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 179,665.

DOCUMENT TYPE: CODEN: USXXAM  
LANGUAGE: Patent  
FAMILY ACC. NUM. COUNT: 7 English  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6387625	B1	20020514	US 2000-596607	20000619
US 5871918	A	19990216	US 1996-667338	19960620
EP 1193315	A1	20020403	EP 2001-130632	19960624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 5968745	A	19991019	US 1997-950503	19971014
US 6132971	A	20001017	US 1998-179665	19981027
AU 753350	B2	20021017	AU 2000-53462	20000817
US 2002106683	A1	20020808	US 2001-8233	20011106
JP 2004117371	A2	20040415	JP 2003-375926	20031105
JP 2004357714	A2	20041224	JP 2004-213311	20040721
PRIORITY APPLN. INFO.:				
			US 1995-495817	B2 19950627
			US 1996-667338	A2 19960620
			US 1996-667338	A3 19960620
			US 1997-950503	A2 19971014
			US 1998-179665	A2 19981027
			US 1995-60949P	P 19950627
			US 1996-16265P	P 19960419
			EP 1996-922533	A3 19960624
			JP 1997-504485	A3 19960624
			US 2000-603217	A3 20000626

REFERENCE COUNT: 115 THERE ARE 115 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 10 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2002:144245 HCPLUS  
DOCUMENT NUMBER: 136:316182  
TITLE: Electron Transfer Reactions of Self-Assembled Monolayers of Thio(Phenylacetylene)n-Substituted Chiral Metal-Salen Complexes  
AUTHOR(S): Nielsen, Morten; Larsen, Niels B.; Gothelf, Kurt V.  
CORPORATE SOURCE: Center for Metal-Catalyzed Reactions, Department of Chemistry, University of Aarhus, Aarhus, DK-8000, Den.  
SOURCE: Langmuir (2002), 18(7), 2795-2799  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 11 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2002:707241 SCISEARCH  
THE GENUINE ARTICLE: 585GP  
TITLE: Dramatically enhanced fluorescence of heteroaromatic chromophores upon insertion as spacers into oligo(triacetylene)s  
AUTHOR: Edelmann M J; Raimundo J M; Utesch N F; Diederich F (Reprint); Boudon C; Gisselbrecht J P; Gross M  
CORPORATE SOURCE: ETH Honggerberg, Organ Chem Lab, HCI, CH-8093 Zurich, Switzerland (Reprint); Univ Strasbourg 1, Lab Electrochim & Chim Phys Corps Solide, Fac Chim, F-67000 Strasbourg, France; CNRS, UMR 7512, F-67000 Strasbourg, France

COUNTRY OF AUTHOR: Switzerland; France  
SOURCE: HELVETICA CHIMICA ACTA, (SEP-OCT 2002) Vol. 85, No. 7, pp. 2195-2213.

Publisher: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451 WEINHEIM, GERMANY.  
ISSN: 0018-019X.

DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 41

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 12 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:186214 SCISEARCH

THE GENUINE ARTICLE: 523XH

TITLE:

Supramolecular gold nanoparticles for the **redox** recognition of oxoanions: Syntheses, titrations, stereoelectronic effects, and selectivity

AUTHOR:

Labande A; Ruiz J; Astruc D (Reprint)

CORPORATE SOURCE:

Univ Bordeaux 1, Chim Organ & Organomet Lab, CNRS, UMR 5802, F-33405 Talence, France (Reprint)

COUNTRY OF AUTHOR:

France

SOURCE:

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (27 FEB 2002) Vol. 124, No. 8, pp. 1782-1789.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA.

ISSN: 0002-7863.

DOCUMENT TYPE:

Article; Journal

LANGUAGE:

English

REFERENCE COUNT:

56

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 13 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:782853 SCISEARCH

THE GENUINE ARTICLE: 595GN

TITLE:

Molecular design of **transition metal** alkynyl complexes as building blocks for luminescent metal-based materials: Structural and photophysical aspects

AUTHOR:

Yam V W W (Reprint)

CORPORATE SOURCE:

Univ Hong Kong, Dept Chem, Pokfulam Rd, Hong Kong, Hong Kong, Peoples R China (Reprint); Univ Hong Kong, Dept Chem, Hong Kong, Hong Kong, Peoples R China

COUNTRY OF AUTHOR:

Peoples R China

SOURCE:

ACCOUNTS OF CHEMICAL RESEARCH, (JUL 2002) Vol. 35, No. 7, pp. 555-563.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA.

ISSN: 0001-4842.

DOCUMENT TYPE:

General Review; Journal

LANGUAGE:

English

REFERENCE COUNT:

43

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 14 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2002:668368 SCISEARCH

THE GENUINE ARTICLE: 581GJ

TITLE:

Ground vs. excited state electron transfer: Adsorbed **monolayers** and trimers in solution

AUTHOR:

Brennan J L; Howlett M; Forster R J (Reprint)

CORPORATE SOURCE:

Dublin City Univ, Sch Chem Sci, Natl Ctr Sensor Res,

COUNTRY OF AUTHOR: Dublin 9, Ireland (Reprint)  
Ireland  
SOURCE: FARADAY DISCUSSIONS, (JUL 2002) Vol. 121, pp. 391-403.  
Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE,  
SCIENCE PARK, MILTON RD,, CAMBRIDGE CB4 0WF, CAMBS,  
ENGLAND.

DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 47

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 15 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2002:100298 SCISEARCH

THE GENUINE ARTICLE: 513LB

TITLE: Electrochemical characterization of Langmuir-Blodgett  
films from the ruthenium complex mer-[RuCl<sub>3</sub>(dppb)(4-Mepy)]  
AUTHOR: Wohnrath K (Reprint); Garcia J R; Nart F C; Batista A A;  
Oliveira O N

CORPORATE SOURCE: Univ Sao Paulo, Inst Fis Sao Carlos, Caixa Postal 369,  
BR-13560970 Sao Carlos, SP, Brazil (Reprint); Univ Sao  
Paulo, Inst Fis Sao Carlos, BR-13560970 Sao Carlos, SP,  
Brazil; Univ Sao Paulo, Inst Quim Sao Carlos, Sao Paulo,  
Brazil; Univ Fed Sao Carlos, Dept Quim, BR-13560 Sao  
Carlos, Brazil

COUNTRY OF AUTHOR: Brazil

SOURCE: THIN SOLID FILMS, (1 JAN 2002) Vol. 402, No. 1-2, pp.  
272-279.

Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE,  
SWITZERLAND.

ISSN: 0040-6090.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 32

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 16 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2001:267007 SCISEARCH

THE GENUINE ARTICLE: 413VU

TITLE: Terthienyl and poly-terthienyl ligands as  
redox-switchable hemilabile ligands for  
oxidation-state-dependent molecular uptake and release  
AUTHOR: Weinberger D A; Higgins T B; Mirkin C A (Reprint); Stern C  
L; Liable-Sands L M; Rheingold A L

CORPORATE SOURCE: Northwestern Univ, Dept Chem, 2145 Sheridan Rd, Evanston,  
IL 60208 USA (Reprint); Northwestern Univ, Dept Chem,  
Evanston, IL 60208 USA; Univ Delaware, Dept Chem &  
Biochem, Newark, DE 19716 USA

COUNTRY OF AUTHOR: USA

SOURCE: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, (21 MAR 2001)  
Vol. 123, No. 11, pp. 2503-2516.  
Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW,  
WASHINGTON, DC 20036 USA.

ISSN: 0002-7863.

DOCUMENT TYPE: Article; Journal

LANGUAGE: English

REFERENCE COUNT: 58

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 17 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
DUPLICATE 1

ACCESSION NUMBER: 2001:790029 SCISEARCH  
THE GENUINE ARTICLE: 475UD  
TITLE: Electroorganic reactions. Part 55. Quinodimethane chemistry. Part 3. **Transition metal** complexes as inter- and intra-molecular **redox** catalysts for the electrosynthesis of poly(p-xylylene) (PPX) polymers and oligomers  
AUTHOR: Janssen R G; Utley J H P (Reprint); Carre E; Simon E; Schirmer H  
CORPORATE SOURCE: Univ London Queen Mary Coll, Dept Chem, Mile End Rd, London E1 4NS, England (Reprint); Univ London Queen Mary Coll, Dept Chem, London E1 4NS, England  
COUNTRY OF AUTHOR: England  
SOURCE: JOURNAL OF THE CHEMICAL SOCIETY-PERKIN TRANSACTIONS 2, (SEP 2001) No. 9, pp. 1573-1584.  
Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE, SCIENCE PARK, MILTON RD,, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND.  
ISSN: 1472-779X.  
DOCUMENT TYPE: Article; Journal  
LANGUAGE: English  
REFERENCE COUNT: 35  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 18 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2  
ACCESSION NUMBER: 2001:824512 SCISEARCH  
THE GENUINE ARTICLE: 478JQ  
TITLE: Monomeric and extended oxo-centered triruthenium clusters  
AUTHOR: Toma H E (Reprint); Araki K; Alexiou A D P; Nikolaou S; Dovidauskas S  
CORPORATE SOURCE: Univ Sao Paulo, Inst Quim, C Postal 26077, BR-05513970 Sao Paulo, SP, Brazil (Reprint); Univ Sao Paulo, Inst Quim, BR-05513970 Sao Paulo, SP, Brazil  
COUNTRY OF AUTHOR: Brazil  
SOURCE: COORDINATION CHEMISTRY REVIEWS, (SEP-OCT 2001) Vol. 219, pp. 187-234.  
Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND.  
ISSN: 0010-8545.  
DOCUMENT TYPE: General Review; Journal  
LANGUAGE: English  
REFERENCE COUNT: 131  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 19 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2000:699119 HCAPLUS  
DOCUMENT NUMBER: 133:249316  
TITLE: **Monolayer** and electrode for detecting a label-bearing target and method of use thereof  
INVENTOR(S): Eckhardt, Allen E.; Mikulecky, Jill C.; Napier, Mary E.; Thomas, Robert S.; Thorp, H. Holden  
PATENT ASSIGNEE(S): The University of North Carolina At Chapel Hill, USA; Xanthon, Inc.  
SOURCE: U.S., 21 pp., Cont.-in-part of U.S. Ser. No. 179,665.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 7  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6127127	A	20001003	US 1999-296929	19990422
US 5871918	A	19990216	US 1996-667338	19960620
EP 1193315	A1	20020403	EP 2001-130632	19960624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 5968745	A	19991019	US 1997-950503	19971014
US 6132971	A	20001017	US 1998-179665	19981027
CA 2367594	AA	20001102	CA 2000-2367594	20000204
WO 2000065099	A1	20001102	WO 2000-US2976	20000204
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185692	A1	20020313	EP 2000-913366	20000204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002542794	T2	20021217	JP 2000-614433	20000204
NZ 514682	A	20030725	NZ 2000-514682	20000204
AU 753350	B2	20021017	AU 2000-53462	20000817
NO 2001004882	A	20011227	NO 2001-4882	20011008
US 2002106683	A1	20020808	US 2001-8233	20011106
JP 2004117371	A2	20040415	JP 2003-375926	20031105
JP 2004357714	A2	20041224	JP 2004-213311	20040721
PRIORITY APPLN. INFO.:				
US 1995-495817 B2 19950627				
US 1996-667338 A3 19960620				
US 1997-950503 A2 19971014				
US 1998-179665 A2 19981027				
US 1995-60949P P 19950627				
US 1996-16265P P 19960419				
EP 1996-922533 A3 19960624				
JP 1997-504485 A3 19960624				
US 1999-296929 A 19990422				
WO 2000-US2976 W 20000204				
US 2000-603217 A3 20000626				

REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 20 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:370082 SCISEARCH

THE GENUINE ARTICLE: 312WW

TITLE: pi-conjugated ligand polymers entwined around copper centres

AUTHOR: Vidal P L; DivisiaBlohorn B (Reprint); Bidan G; Hazemann J L; Kern J M; Sauvage J P

CORPORATE SOURCE: UNIV J FOURIER, CNRS, CEA, DEPT RECH FONDAMENTALE MAT CONDENSEE, UMR5819, LAB ELECTROCHIM MOL, F-38054 GRENOBLE 9, FRANCE (Reprint); UNIV J FOURIER, CNRS, CEA, DEPT RECH FONDAMENTALE MAT CONDENSEE, UMR5819, LAB ELECTROCHIM MOL, F-38054 GRENOBLE 9, FRANCE; LAB CRISTALLOG GRENOBLE, UPR 5031 CNRS, F-38042 GRENOBLE 9, FRANCE; UJF, UMR 5559, LAB GEOPHYS INTERNE & TECTONOPHYS, CNRS, F-38041 GRENOBLE 9, FRANCE; UNIV LOUIS PASTEUR STRASBOURG 1, LAB CHIM ORGANOMINERALE, UMR 7513, INST LE BEL, F-67000 STRASBOURG, FRANCE

COUNTRY OF AUTHOR: FRANCE

SOURCE: CHEMISTRY-A EUROPEAN JOURNAL, (2 MAY 2000) Vol. 6, No. 9, pp. 1663-1673.

Publisher: WILEY-V C H VERLAG GMBH, MUHLENSTRASSE 33-34,  
D-13187 BERLIN, GERMANY.

ISSN: 0947-6539.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: English

REFERENCE COUNT: 41

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 21 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2000:446072 SCISEARCH

THE GENUINE ARTICLE: 321XD

TITLE: Colloids as **redox** sensors: recognition of H<sub>2</sub>PO<sub>4</sub><sup>-</sup> and HSO<sub>4</sub><sup>-</sup> by amidoferrocenylalkylthiol-gold nanoparticles

Labande A; Astruc D (Reprint)

AUTHOR: CORPORATE SOURCE: UNIV BORDEAUX 1, LCOO, GRP CHIM SUPRAMOL MET TRANSIT, CNRS, UMR 5802, 351 COURS LIBERAT, F-33405 TALENCE, FRANCE (Reprint); UNIV BORDEAUX 1, LCOO, GRP CHIM SUPRAMOL MET TRANSIT, CNRS, UMR 5802, F-33405 TALENCE, FRANCE

COUNTRY OF AUTHOR: FRANCE

SOURCE: CHEMICAL COMMUNICATIONS, (SPR 2000) No. 12, pp. 1007-1008.

Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE,

SCIENCE PARK, MILTON RD, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND

ISSN: 1359-7345.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: English

REFERENCE COUNT: 26

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 22 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 2000:30973 SCISEARCH

THE GENUINE ARTICLE: 270MY

TITLE: Polymers at interfaces: Using atom transfer radical polymerization in the controlled growth of homopolymers and block copolymers from silicon surfaces in the absence of untethered sacrificial initiator

Matyjaszewski K (Reprint); Miller P J; Shukla N;

Immaraporn B; Gelman A; Luokala B B; Siclovan T M;

Kickelbick G; Vallant T; Hoffmann H; Pakula T

AUTHOR: CORPORATE SOURCE: CARNEGIE MELLON UNIV, DEPT CHEM, CTR MACROMOL ENGN, 4400 5TH AVE, PITTSBURGH, PA 15213 (Reprint); CARNEGIE MELLON UNIV, DEPT CHEM ENGN, PITTSBURGH, PA 15213; CARNEGIE MELLON UNIV, DEPT PHYS, PITTSBURGH, PA 15213; GE CO, CTR CORP RES & DEV, SCHENECTADY, NY 12301; TECH UNIV VIENNA, INST ANORGAN CHEM, A-1060 VIENNA, AUSTRIA; MAX PLANCK INST POLYMER RES, D-55128 MAINZ, GERMANY

COUNTRY OF AUTHOR: USA; AUSTRIA; GERMANY

SOURCE: MACROMOLECULES, (28 DEC 1999) Vol. 32, No. 26, pp. 8716-8724.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.

ISSN: 0024-9297.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: English

REFERENCE COUNT: 33

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 23 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:542095 HCPLUS  
TITLE: Molecules and extended arrays with **redox**  
-active **ligands** based on tetrathiafulvalene.  
AUTHOR(S): Dunbar, Kim R.; Smucker, Bradley W.  
CORPORATE SOURCE: Department of Chemistry, Texas A&M University, College  
Station, TX, 77840, USA  
SOURCE: Book of Abstracts, 218th ACS National Meeting, New  
Orleans, Aug. 22-26 (1999), INOR-640. American  
Chemical Society: Washington, D. C.  
CODEN: 67ZJA5  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 24 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 1999:460383 SCISEARCH  
THE GENUINE ARTICLE: 204QB  
TITLE: Recognition of the dihydrogenophosphate anion on a gold  
electrode derivatized with an amidoferrocenylalkylthiolate  
ligand  
AUTHOR: Alonso E; Labande A; Raehm L; Kern J M (Reprint); Astruc D  
CORPORATE SOURCE: UNIV BORDEAUX 1, UMR 5802, LCOO, GRP SUPRAMOL MET TRANSIT,  
351 COURS LIBERAT, F-33405 TALENCE, FRANCE (Reprint); UNIV  
BORDEAUX 1, UMR 5802, LCOO, GRP SUPRAMOL MET TRANSIT,  
F-33405 TALENCE, FRANCE; UNIV STRASBOURG 1, INST LE BEL,  
F-67070 STRASBOURG, FRANCE  
COUNTRY OF AUTHOR: FRANCE  
SOURCE: COMPTES RENDUS DE L ACADEMIE DES SCIENCES SERIE II  
FASCICULE C-CHIMIE, (APR 1999) Vol. 2, No. 4, pp. 209-213.  
Publisher: EDITIONS SCIENTIFIQUES MEDICALES ELSEVIER, 23  
RUE LINOIS, 75724 PARIS CEDEX 15, FRANCE.  
ISSN: 1387-1609.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: English  
REFERENCE COUNT: 26  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 25 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:541582 HCPLUS  
TITLE: Redox-tunable ruthenium complexes containing  
pendant thiol or disulfide groups designed to form  
self-assembled monolayers on gold.  
AUTHOR(S): Lehnes, J. M.; Goldsby, K. A.  
CORPORATE SOURCE: Dept. of Chemistry, Florida State University,  
Tallahassee, FL, 32603-4390, USA  
SOURCE: Book of Abstracts, 218th ACS National Meeting, New  
Orleans, Aug. 22-26 (1999), INOR-131. American  
Chemical Society: Washington, D. C.  
CODEN: 67ZJA5  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 26 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:47836 HCPLUS  
DOCUMENT NUMBER: 130:217101  
TITLE: A simple route to bis(terpyridyl)transition  
metal oligomers  
AUTHOR(S): Storrier, Gregory D.; Colbran, Stephen B.  
CORPORATE SOURCE: School of Chemistry, University of New South Wales,  
Sydney, NSW 2052, Australia  
SOURCE: Inorganica Chimica Acta (1999), 284(1), 76-84  
CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER: Elsevier Science S.A.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 27 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:541459 HCPLUS  
TITLE: Photophysics of aryleneethynylene p-conjugated oligomers incorporating MLCT chromophores.  
AUTHOR(S): Schanze, Kirk S.; Walters, Keith A.; Ley, Kevin D.; Li, Yiting  
CORPORATE SOURCE: Department of Chemistry, University of Florida, Gainesville, FL, 32611-7200, USA  
SOURCE: Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), INOR-007. American Chemical Society: Washington, D. C.  
CODEN: 67ZJA5  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 28 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1998:673189 HCPLUS  
DOCUMENT NUMBER: 130:32222  
TITLE: The Intra- and Intermolecular Oxidative Coupling of Ni(II)-meso-Octaethyl Mono(pyridine)-Tris(pyrrole) Complex Leading to C-C Bonds: Pathways to Oligomeric Porphyrinogens  
AUTHOR(S): Crescenzi, Raffaella; Solari, Euro; Floriani, Carlo; Chiesi-Villa, Angiola; Rizzoli, Corrado  
CORPORATE SOURCE: Institut de Chimie Minerale et Analytique BCH, Universite de Lausanne, Lausanne, CH-1015, Switz.  
SOURCE: Inorganic Chemistry (1998), 37(23), 6044-6051  
CODEN: INOCAJ; ISSN: 0020-1669  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 29 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 1998:780573 SCISEARCH  
THE GENUINE ARTICLE: 126AB  
TITLE: Electrochemical and spectroscopic studies of 2,3-dihydroxybenzoic acid, its oxidation products and their interaction with manganese(II), in dimethyl sulfoxide solutions  
AUTHOR: Hatzipanayioti D (Reprint); Karaliota A; Kamariotaki M; Veneris A; Falaras P  
CORPORATE SOURCE: UNIV ATHENS, DEPT CHEM, SECT 3, ATHENS 15771, GREECE (Reprint); NCSR DEMOKRITOS, INST CHEM PHYS, AGHIA PARASKEVI 15310, GREECE  
COUNTRY OF AUTHOR: GREECE  
SOURCE: TRANSITION METAL CHEMISTRY, (AUG 1998) Vol. 23, No. 4, pp. 407-416.  
Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS.  
ISSN: 0340-4285.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: English  
REFERENCE COUNT: 80

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 30 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1998:529199 HCPLUS  
TITLE: Synthetically versatile ruthenium complexes designed  
to form **monolayers** on gold.  
AUTHOR(S): Lehnes, Joseph M.; Beverly, Kristen C.; Erstling,  
Morton; Goldsby, Kenneth A.  
CORPORATE SOURCE: Department Chemistry, Florida State University,  
Tallahassee, FL, 32306-4390, USA  
SOURCE: Book of Abstracts, 216th ACS National Meeting, Boston,  
August 23-27 (1998), INOR-367. American Chemical  
Society: Washington, D. C.  
CODEN: 66KYA2  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 31 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1998:357188 HCPLUS  
DOCUMENT NUMBER: 129:122874  
TITLE: Building photoactive molecular-scale wires  
AUTHOR(S): Harriman, Anthony; Ziessel, Raymond  
CORPORATE SOURCE: Ecole Europeenne de Chimie, Polym. Mater., Lab. Chim.  
d'Electronique et de Photonique Moleculaires,  
Universite Louis Pasteur, Strasbourg, 67008, Fr.  
SOURCE: Coordination Chemistry Reviews (1998), 171, 331-339  
PUBLISHER: Elsevier Science S.A.  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 32 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 1998:532923 SCISEARCH  
THE GENUINE ARTICLE: ZY388  
TITLE: Molybdenum catecholates as models for Mo in biological  
systems. 1. Synthesis and spectroscopic study on Mo  
complexes with 3,4-dihydroxybenzoic and  
3,4-dihydroxyphenylacetic acid  
AUTHOR: Karaliota A (Reprint); Kamariotaki M; Hadjipanagioti D;  
Aletras V  
CORPORATE SOURCE: UNIV ATHENS, INORGAN CHEM LAB, DEPT CHEM, POB 15771,  
ATHENS, GREECE (Reprint); INST TECHNOL AGR PROD, NATL AGR  
RES FDN, ATHENS, GREECE  
COUNTRY OF AUTHOR: GREECE  
SOURCE: JOURNAL OF INORGANIC BIOCHEMISTRY, (1 FEB 1998) Vol. 69,  
No. 1-2, pp. 79-90.  
Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE  
AMERICAS, NEW YORK, NY 10010.  
ISSN: 0162-0134.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS; LIFE  
LANGUAGE: English  
REFERENCE COUNT: 72

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 33 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:628624 HCPLUS  
DOCUMENT NUMBER: 127:271709  
TITLE: Bis[4'-(4-anilino)-2,2':6',2"-terpyridine]  
transition-metal complexes:

AUTHOR(S): electrochemically active monomers with a range of magnetic and optical properties for assembly of metallo **oligomers** and macromolecules  
Storrier, Gregory D.; Colbran, Stephen B.; Craig, Donald C.  
CORPORATE SOURCE: School of Chemistry, University of New South Wales, Sydney, NSW 2052, Australia  
SOURCE: Journal of the Chemical Society, Dalton Transactions: Inorganic Chemistry (1997), (17), 3011-3028  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 76 THERE ARE 76 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 34 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:487572 HCAPLUS  
TITLE: Conjugated organometallic **oligomers**, polymers, and networks.  
AUTHOR(S): John, Kevin D.; Stevenson, Margaret A.; Pollagi, Timothy P.; Hopkins, Michael D.  
CORPORATE SOURCE: Department Chemistry, University Pittsburgh, Pittsburgh, PA, 15260, USA  
SOURCE: Book of Abstracts, 214th ACS National Meeting, Las Vegas, NV, September 7-11 (1997), INOR-166. American Chemical Society: Washington, D. C.  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 35 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:157521 HCAPLUS  
TITLE: Phosphine-functionalized tetrathiafulvalenes as precursors to **redox**-active inorganic-organic extended materials.  
AUTHOR(S): Dunbar, Kim R.; Fourmigue, Marc; Uzelmeier, Calvin E.; Grandinetti, Giulio  
CORPORATE SOURCE: Department Chemistry, Michigan State University, East Lansing, MI, 48824, USA  
SOURCE: Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17 (1997), INOR-058. American Chemical Society: Washington, D. C.  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 36 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1996:220184 HCAPLUS  
TITLE: Novel phosphines with tetrathiafulvalene substituents.  
AUTHOR(S): Bartley, Stuart L.; Batail, Patrick; Dunbar, Kim R.; Fourmigue, Marc; Uzelmeier, Calvin E.; Meinershagen, Julia L.  
CORPORATE SOURCE: Department Chemistry, Michigan State University, East Lansing, MI, 48824, USA  
SOURCE: Book of Abstracts, 211th ACS National Meeting, New Orleans, LA, March 24-28 (1996), INOR-446. American Chemical Society: Washington, D. C.  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L20 ANSWER 37 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:40836 HCAPLUS  
DOCUMENT NUMBER: 126:149636  
TITLE: Synthesis, characterization and applications of  
redox active self-assembling  
monolayers  
AUTHOR(S): Maskus, M.; Tirado, J.; Hudson, J.; Bretz, R.; Abruna,  
H. D.  
CORPORATE SOURCE: Department Chemistry, Cornell University, Ithaca, NY,  
14853-1301, USA  
SOURCE: NATO ASI Series, Series C: Mathematical and Physical  
Sciences (1996), 485(Physical Supramolecular  
Chemistry), 337-353  
CODEN: NSCSDW; ISSN: 0258-2023  
PUBLISHER: Kluwer  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English  
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 38 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1995:945888 HCAPLUS  
DOCUMENT NUMBER: 123:353044  
TITLE: Electrochemical study of some chloro complexes of  
titanium, molybdenum, iron, aluminum or tin in high  
oxidation states  
AUTHOR(S): Ribeiro, L. M. D.; Lemos, M. A. N. D. A.; Pombeiro, A.  
J. L.; Sobota, P.  
CORPORATE SOURCE: Cent. Quim. Estrutural, Inst. Superior Tecnico, Pais,  
1096, Port.  
SOURCE: Russian Journal of Electrochemistry (Translation of  
Elektrokhimiya) (1995), 31(10), 1009-15  
CODEN: RJELE3; ISSN: 1023-1935  
PUBLISHER: MAIK Nauka/Interperiodica  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L20 ANSWER 39 OF 41 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1994:448997 HCAPLUS  
DOCUMENT NUMBER: 121:48997  
TITLE: Metal-directed assembly of coordination  
oligomers  
AUTHOR(S): Constable, Edwin C.; Thompson, Alexander M. W.  
Cargill, Tocher, Derek A.  
CORPORATE SOURCE: Cambridge Cent. Mol. Recognit., Univ. Chem. Lab.,  
Cambridge, CB2 1EW, UK  
SOURCE: Macromolecular Symposia (1994), 77(International  
Symposium on New Macromolecular Architectures and  
Supramolecular Polymers, 1993), 219-28  
CODEN: MSYMEC; ISSN: 1022-1360  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L20 ANSWER 40 OF 41 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 94:47853 SCISEARCH  
THE GENUINE ARTICLE: MP905  
TITLE: IN-SITU LANGMUIR-BLODGETT SURFACE-FILM ELECTROCHEMICAL  
STUDY OF RU(P(C18H37)(3))(2)(DTBSQ)(2)  
AUTHOR: FU Y S; OUYANG J B; LEVER A B P (Reprint)  
CORPORATE SOURCE: YORK UNIV, DEPT CHEM, N YORK M3J 1P3, ON, CANADA  
(Reprint); YORK UNIV, DEPT CHEM, N YORK M3J 1P3, ON,  
CANADA  
COUNTRY OF AUTHOR: CANADA

SOURCE: JOURNAL OF PHYSICAL CHEMISTRY, (23 DEC 1993) Vol. 97, No. 51, pp. 13753-13760.  
ISSN: 0022-3654.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 56  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L20 ANSWER 41 OF 41 HCPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1994:670268 HCPLUS  
DOCUMENT NUMBER: 121:270268  
TITLE: Multinucleating 2,2':6',2"-terpyridine ligands as supramolecular building blocks; heterotrinuclear complexes and the crystal and molecular structure of 6',6'''-bis(2-pyridyl)-2,2':4',4'''-2'',2'''-quaterpyridine (btpy)  
AUTHOR(S): Constable, Edwin C.; Cargill Thompson, Alexander M. W.; Tocher, Derek A.  
CORPORATE SOURCE: Cambridge Centre for Molecular Recognition, University Chemical Laboratory, Cambridge, CB2 1EW, UK  
SOURCE: Supramolecular Chemistry (1993), 3(1), 9-14  
CODEN: SCHEER; ISSN: 1061-0278  
DOCUMENT TYPE: Journal  
LANGUAGE: English

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(FILE 'HOME' ENTERED AT 09:16:04 ON 15 MAR 2005)

FILE 'STNGUIDE' ENTERED AT 09:16:11 ON 15 MAR 2005

FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCPLUS, NTIS, LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A)METAL  
L6 6 S L4 AND L5  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)  
L8 0 S LIGAND?  
L9 1100976 S LIGAND?  
L10 22884 S L1 AND L2  
L11 188 S L10 AND L9  
L12 12 S L5 AND L11  
L13 11 DUP REM L12 (1 DUPLICATE REMOVED)  
L14 250194 S L10 AND L4 OR L5  
L15 45954 S L9 AND L14  
L16 475804 S MONOLAYER OR OLIGOMER?  
L17 711 S L15 AND L16  
L18 261283 S REDOX  
L19 43 S L17 AND L18  
L20 41 DUP REM L19 (2 DUPLICATES REMOVED)

=> e meade J m/au

E1 5 MEADE J J/AU  
E2 9 MEADE J L/AU  
E3 9 --> MEADE J M/AU  
E4 2 MEADE J O/AU

E5 2 MEADE J O JR/AU  
E6 5 MEADE J P/AU  
E7 1 MEADE J T/AU  
E8 75 MEADE J W/AU  
E9 7 MEADE JAMES/AU  
E10 8 MEADE JAMES B/AU  
E11 5 MEADE JAMES D/AU  
E12 10 MEADE JAMES H/AU

=> e meade t j/au

E1 10 MEADE T E/AU  
E2 15 MEADE T G/AU  
E3 162 --> MEADE T J/AU  
E4 48 MEADE T L/AU  
E5 1 MEADE T S JR/AU  
E6 1014 MEADE T W/AU  
E7 2 MEADE TARA J/AU  
E8 1 MEADE TH W/AU  
E9 17 MEADE THOMAS/AU  
E10 1 MEADE THOMAS D/AU  
E11 1 MEADE THOMAS E/AU  
E12 156 MEADE THOMAS J/AU

=> s e3-e12

L21 1403 ("MEADE T J"/AU OR "MEADE T L"/AU OR "MEADE T S JR"/AU OR "MEADE T W"/AU OR "MEADE TARA J"/AU OR "MEADE TH W"/AU OR "MEADE THOMAS"/AU OR "MEADE THOMAS D"/AU OR "MEADE THOMAS E"/AU OR "MEADE THOMAS J"/AU)

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(FILE 'HOME' ENTERED AT 09:16:04 ON 15 MAR 2005)

FILE 'STNGUIDE' ENTERED AT 09:16:11 ON 15 MAR 2005

FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS, LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A)METAL  
L6 6 S L4 AND L5  
L7 5 DUP REM L6 (1 DUPLICATE REMOVED)  
L8 0 S LIQAND?  
L9 1100976 S LIGAND?  
L10 22884 S L1 AND L2  
L11 188 S L10 AND L9  
L12 12 S L5 AND L11  
L13 11 DUP REM L12 (1 DUPLICATE REMOVED)  
L14 250194 S L10 AND L4 OR L5  
L15 45954 S L9 AND L14  
L16 475804 S MONOLAYER OR OLIGOMER?  
L17 711 S L15 AND L16  
L18 261283 S REDOX  
L19 43 S L17 AND L18  
L20 41 DUP REM L19 (2 DUPLICATES REMOVED)  
E MEADE J M/AU  
E MEADE T J/AU  
L21 1403 S E3-E12

=> S 15 and 121  
L22 50 L5 AND L21

=> dup rem 122  
PROCESSING COMPLETED FOR L22  
L23 39 DUP REM L22 (11 DUPLICATES REMOVED)

=> d 1-39 ibib

L23 ANSWER 1 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:609723 HCAPLUS  
DOCUMENT NUMBER: 141:150108  
TITLE: MRI contrast agents containing a covalently attached matrix metalloproteinase (MMP)-active peptide for cancer imaging  
INVENTOR(S): Meade, Thomas J.; Allen, Matthew J.; Bakan, Douglas A.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. 6,673,333.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004146463	A1	20040729	US 2003-693252	20031024
US 6673333	B1	20040106	US 2000-715859	20001117
PRIORITY APPLN. INFO.:			US 2000-201816P	P 20000504
			US 2000-715859	A2 20001117
			US 2002-421470P	P 20021024

OTHER SOURCE(S): MARPAT 141:150108

L23 ANSWER 2 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:661788 HCAPLUS  
TITLE: Imaging in 2020: The chemistry of biological molecular imaging  
AUTHOR(S): Meade, Thomas J.  
CORPORATE SOURCE: Department of Chemistry, Northwestern University, Evanston, IL, 60208-3113, USA  
SOURCE: Abstracts of Papers, 228th ACS National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), INOR-624. American Chemical Society: Washington, D. C.  
CODEN: 69FTZ8  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L23 ANSWER 3 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2003:172858 BIOSIS  
DOCUMENT NUMBER: PREV200300172858  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor, Reprint Author]; Kayyem, Jon Faiz [Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6528266 March 04, 2003  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Mar 4 2003) Vol. 1268, No. 1.  
http://www.uspto.gov/web/menu/patdata.html. e-file.  
ISSN: 0098-1133 (ISSN print).  
DOCUMENT TYPE: Patent

LANGUAGE: English  
ENTRY DATE: Entered STN: 2 Apr 2003  
Last Updated on STN: 2 Apr 2003

L23 ANSWER 4 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
DUPLICATE 1  
ACCESSION NUMBER: 2002:556889 BIOSIS  
DOCUMENT NUMBER: PREV200200556889  
TITLE: Nucleosides comprising polydentate ligands.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Welch, Thomas W.  
[Inventor, Reprint author]  
CORPORATE SOURCE: Pasadena, CA, USA  
ASSIGNEE: Molecular Dynamics, Inc.  
PATENT INFORMATION: US 6444423 September 03, 2002  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Sep. 3, 2002) Vol. 1262, No. 1.  
<http://www.uspto.gov/web/menu/patdata.html>. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 30 Oct 2002  
Last Updated on STN: 30 Oct 2002

L23 ANSWER 5 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:538431 BIOSIS  
DOCUMENT NUMBER: PREV200100538431  
TITLE: Metallic solid supports modified with nucleic acids.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon F.  
[Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6291188 September 18, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Sep. 18, 2001) Vol. 1250, No. 3. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 21 Nov 2001  
Last Updated on STN: 25 Feb 2002

L23 ANSWER 6 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:473205 BIOSIS  
DOCUMENT NUMBER: PREV200100473205  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz  
[Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6277576 August 21, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Aug. 21, 2001) Vol. 1249, No. 3. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 10 Oct 2001  
Last Updated on STN: 23 Feb 2002

L23 ANSWER 7 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:453288 BIOSIS  
DOCUMENT NUMBER: PREV200100453288  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz  
[Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6268150 July 31, 2001

SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 31, 2001) Vol. 1248, No. 5. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 26 Sep 2001  
Last Updated on STN: 22 Feb 2002

L23 ANSWER 8 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:453287 BIOSIS  
DOCUMENT NUMBER: PREV200100453287  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz [Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6268149 July 31, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 31, 2001) Vol. 1248, No. 5. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 26 Sep 2001  
Last Updated on STN: 22 Feb 2002

L23 ANSWER 9 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:378991 BIOSIS  
DOCUMENT NUMBER: PREV200100378991  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz [Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6258545 July 10, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 10, 2001) Vol. 1248, No. 2. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 8 Aug 2001  
Last Updated on STN: 19 Feb 2002

L23 ANSWER 10 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:525919 BIOSIS  
DOCUMENT NUMBER: PREV200100525919  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz [Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6238870 May 29, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (May 29, 2001) Vol. 1246, No. 5. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 14 Nov 2001  
Last Updated on STN: 23 Feb 2002

L23 ANSWER 11 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2001:402094 BIOSIS  
DOCUMENT NUMBER: PREV200100402094  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz

CORPORATE SOURCE: [Inventor]; Fraser, Scott E. [Inventor]  
PATENT INFORMATION: ASSIGNEE: California Institute of Technology  
SOURCE: US 6200761 March 13, 2001  
Official Gazette of the United States Patent and Trademark  
Office Patents, (Mar. 13, 2001) Vol. 1244, No. 2. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 22 Aug 2001  
Last Updated on STN: 22 Feb 2002

L23 ANSWER 12 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2001:343866 BIOSIS  
DOCUMENT NUMBER: PREV200100343866  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz  
[Inventor]; Fraser, Scott E. [Inventor, Reprint author]  
CORPORATE SOURCE: La Canada-Flintridge, CA, USA  
ASSIGNEE: California Institute of Technology, Pasadena, CA,  
USA  
PATENT INFORMATION: US 6180352 January 30, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Jan. 30, 2001) Vol. 1242, No. 5. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 25 Jul 2001  
Last Updated on STN: 19 Feb 2002

L23 ANSWER 13 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2001:162468 BIOSIS  
DOCUMENT NUMBER: PREV200100162468  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz  
[Inventor]; Fraser, Scott E. [Inventor]  
CORPORATE SOURCE: ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6087100 July 11, 2000  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (July 11, 2000) Vol. 1236, No. 2. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 4 Apr 2001  
Last Updated on STN: 15 Feb 2002

L23 ANSWER 14 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2001:70848 BIOSIS  
DOCUMENT NUMBER: PREV200100070848  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, Thomas J. [Inventor]; Kayyem, Jon Faiz  
[Inventor]; Fraser, Scott E. [Inventor, Reprint author]  
CORPORATE SOURCE: Newport Beach, CA, USA  
ASSIGNEE: California Institute of Technology  
PATENT INFORMATION: US 6071699 June 06, 2000  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (June 6, 2000) Vol. 1235, No. 1. e-file.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
ENTRY DATE: Entered STN: 7 Feb 2001

Last Updated on STN: 12 Feb 2002

L23 ANSWER 15 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2000:351537 HCAPLUS  
DOCUMENT NUMBER: 132:334727  
TITLE: Methods of making nucleosides modified with signaling  
moieties and polydentate ligands  
INVENTOR(S): Meade, Thomas J.; Yu, Changjun  
PATENT ASSIGNEE(S): USA  
SOURCE: PCT Int. Appl., 29 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000029420	A2	20000525	WO 1999-US26268	19991112
WO 2000029420	A3	20001123		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
US 2002004593	A1	20020110	US 1998-192167	19981113
CA 2350139	AA	20000525	CA 1999-2350139	19991112
EP 1129098	A2	20010905	EP 1999-967097	19991112
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
JP 2002530289	T2	20020917	JP 2000-582407	19991112
AU 763073	B2	20030710	AU 2000-23443	19991112
PRIORITY APPLN. INFO.:			US 1998-192167	A 19981113
			WO 1999-US26268	W 19991112

L23 ANSWER 16 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2000:795738 HCAPLUS  
TITLE: Electron transfer mechanisms through DNA: A new  
approach toward molecular biosensors.  
AUTHOR(S): Meade, Thomas J.  
CORPORATE SOURCE: Division of Biology, California Institute of  
Technology, Pasadena, CA, 91125, USA  
SOURCE: Abstracts of Papers, 220th ACS National Meeting,  
Washington, DC, United States, August 20-24, 2000  
(2000) INOR-293  
CODEN: 69FZC3  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal; Meeting Abstract  
LANGUAGE: English

L23 ANSWER 17 OF 39 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN  
DUPLICATE 2  
ACCESSION NUMBER: 1999-14677 BIOTECHDS  
TITLE: Detecting nucleic acid sequences via hybridization assays  
involving nucleic acid probes modified with electron transfer  
moieties such as transition metal  
complexes;  
DNA probe for e.g. cancer and bacteria or virus infection  
diagnosis

AUTHOR: **Meade T J; Kayyem J F; Fraser S E**  
PATENT ASSIGNEE: California-Inst.Technol.  
LOCATION: Pasadena, CA, USA.  
PATENT INFO: US 5952172 14 Sep 1999  
APPLICATION INFO: US 1997-873598 12 Jun 1997  
PRIORITY INFO: US 1997-873598 12 Jun 1997  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 1999-527007 [44]

L23 ANSWER 18 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:175688 HCAPLUS  
DOCUMENT NUMBER: 130:191009  
TITLE: Group 10 and 11 **transition-metal**  
INVENTOR(S): Schiff-base complexes as cysteine protease inhibitors  
Grinstaff, Mark W.; Gray, Harry B.; **Meade, Thomas**  
J.  
PATENT ASSIGNEE(S): California Institute of Technology, USA  
SOURCE: U.S., 18 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5880149	A	19990309	US 1996-721872	19960927
PRIORITY APPLN. INFO.:			US 1996-721872	19960927
OTHER SOURCE(S):	MARPAT	130:191009		
REFERENCE COUNT:	18		THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L23 ANSWER 19 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:92490 HCAPLUS  
TITLE: Electron transfer in DNA: The design and kinetics of a  
structurally defined system  
AUTHOR(S): Frank, Natia L.; Krider, Elizabeth S.; Rack, Jeff J.;  
**Meade, Thomas J.**  
CORPORATE SOURCE: Beckman Institute, California Institute of Technology,  
Pasadena, CA, 91125, USA  
SOURCE: Book of Abstracts, 217th ACS National Meeting,  
Anaheim, Calif., March 21-25 (1999), INOR-671.  
American Chemical Society: Washington, D. C.  
CODEN: 67GHA6  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L23 ANSWER 20 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 3  
ACCESSION NUMBER: 1999:358644 SCISEARCH  
THE GENUINE ARTICLE: 192FM  
TITLE: **Transition metal and lanthanide**  
complexes as diagnostic tools - Preface  
AUTHOR: **Meade T J (Reprint)**  
CORPORATE SOURCE: CALTECH, BECKMAN INST 139 74, PASADENA, CA 91125 (Reprint)  
COUNTRY OF AUTHOR: USA  
SOURCE: COORDINATION CHEMISTRY REVIEWS, (APR 1999) Vol. 184, pp.  
1-1.  
Publisher: ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE,  
SWITZERLAND.  
ISSN: 0010-8545.  
DOCUMENT TYPE: Editorial; Journal

FILE SEGMENT: PHYS  
LANGUAGE: English  
REFERENCE COUNT: 0

L23 ANSWER 21 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:8196 HCAPLUS  
DOCUMENT NUMBER: 130:49509  
TITLE: Detection of analytes using reorganization energy  
INVENTOR(S): Meade, Thomas J.  
PATENT ASSIGNEE(S): Clinical Micro Sensors, Inc., USA  
SOURCE: PCT Int. Appl., 42 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9857158	A1	19981217	WO 1998-US12082	19980612
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6013459	A	20000111	US 1997-873977	19970612
CA 2292696	AA	19981217	CA 1998-2292696	19980612
AU 9878355	A1	19981230	AU 1998-78355	19980612
AU 747345	B2	20020516		
US 6013170	A	20000111	US 1998-96504	19980612
EP 988532	A1	20000329	EP 1998-926542	19980612
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002504230	T2	20020205	JP 1999-503184	19980612
US 6248229	B1	20010619	US 1999-417988	19991013
US 2002033345	A1	20020321	US 2001-841809	20010424
PRIORITY APPLN. INFO.:			US 1997-873977	A 19970612
			US 1998-96504	A1 19980612
			WO 1998-US12082	W 19980612
			US 1999-417988	A1 19991013

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 22 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1998:681970 HCAPLUS  
DOCUMENT NUMBER: 129:313126  
TITLE: Nucleic acid conjugates with organic redox active moieties and nucleic acid complexes with transition metals, electron transfer, bioconductors, and photoactive probes  
INVENTOR(S): Meade, Thomas J.; Kayyem, Jon Faiz; Fraser, Scott E.  
PATENT ASSIGNEE(S): California Institute of Technology, USA  
SOURCE: U.S., 29 pp., Cont.-in-part of U.S. 5,591,578.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5824473	A	19981020	US 1995-475051	19950607
US 5591578	A	19970107	US 1993-166036	19931210
CA 2178618	AA	19950615	CA 1994-2178618	19941205
EP 1172446	A2	20020116	EP 2001-122329	19941205
EP 1172446	A3	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE			
ES 2174917	T3	20021116	ES 1995-903194	19941205
WO 9640712	A1	19961219	WO 1996-US9769	19960607
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG			
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN			
AU 9661662	A1	19961230	AU 1996-61662	19960607
US 5770369	A	19980623	US 1996-660534	19960607
EP 871642	A1	19981021	EP 1996-919290	19960607
EP 871642	B1	20030423		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
AT 238337	E	20030515	AT 1996-919290	19960607
PT 871642	T	20030829	PT 1996-919290	19960607
EP 1340764	A2	20030903	EP 2003-8632	19960607
EP 1340764	A3	20040407		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
ES 2198486	T3	20040201	ES 1996-919290	19960607
US 5705348	A	19980106	US 1996-709265	19960906
US 5780234	A	19980714	US 1996-709263	19960906
US 6265155	B1	20010724	US 1997-808750	19970228
US 5952172	A	19990914	US 1997-873598	19970612
US 6087100	A	20000711	US 1997-946679	19971008
US 6177250	B1	20010123	US 1999-306737	19990507
US 6277576	B1	20010821	US 1999-306768	19990507
US 6200761	B1	20010313	US 1999-454497	19991206
US 6268149	B1	20010731	US 1999-454498	19991206
US 6238870	B1	20010529	US 1999-458187	19991208
US 6180352	B1	20010130	US 1999-459191	19991210
US 6268150	B1	20010731	US 1999-459751	19991210
US 6258545	B1	20010710	US 2000-545227	20000407
US 6291188	B1	20010918	US 2000-639311	20000815
US 2001046679	A1	20011129	US 2001-845746	20010430
US 6528266	B2	20030304		
US 2001034033	A1	20011025	US 2001-866067	20010523
US 2002034759	A1	20020321	US 2001-921645	20010803
US 2003170677	A1	20030911	US 2002-279742	20021023
US 2004101890	A1	20040527	US 2003-636371	20030807
JP 2005013222	A2	20050120	JP 2004-127138	20040422
			US 1993-166036	A2 19931210
			EP 1995-903194	A3 19941205
			JP 1995-516249	A3 19941205
			US 1995-475051	A 19950607
			EP 1996-919290	A3 19960607
			US 1996-660534	A2 19960607
			WO 1996-US9769	W 19960607
			US 1996-709263	A1 19960906
			US 1997-808750	A1 19970228
			US 1997-873598	A1 19970612
			US 1997-946679	A1 19971008
			US 1998-100507	A1 19980619
			US 1999-306749	A1 19990507

US 1999-454498 A1 19991206  
US 2000-545227 A1 20000407  
US 2000-639311 A1 20000815  
US 2001-845746 A1 20010430  
REFERENCE COUNT: 133 THERE ARE 133 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 23 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 1998:469936 SCISEARCH  
THE GENUINE ARTICLE: ZT829  
TITLE: A cobalt complex that selectively disrupts the structure and function of zinc fingers  
AUTHOR: Louie A Y; Meade T J (Reprint)  
CORPORATE SOURCE: CALTECH, BECKMAN INST, DIV BIOL, MAIL CODE 139-74, PASADENA, CA 91125 (Reprint); CALTECH, BECKMAN INST, DIV BIOL, PASADENA, CA 91125  
COUNTRY OF AUTHOR: USA  
SOURCE: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (9 JUN 1998) Vol. 95, No. 12, pp. 6663-6668.  
Publisher: NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC 20418.  
ISSN: 0027-8424.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 25  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L23 ANSWER 24 OF 39 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN  
DUPLICATE 4  
ACCESSION NUMBER: 1998-02535 BIOTECHDS  
TITLE: Nucleic acids covalently modified with electron donors and acceptors;  
DNA probe for use in hybridization, diagnostic or bioconductor  
AUTHOR: Meade T J; Welch T W  
PATENT ASSIGNEE: California-Inst.Technol.  
LOCATION: Pasadena, CA, USA.  
PATENT INFO: WO 9746568 11 Dec 1997  
APPLICATION INFO: WO 1997-US9739 4 Jun 1997  
PRIORITY INFO: US 1996-659987 7 Jun 1996  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 1998-042109 [04]

L23 ANSWER 25 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
ACCESSION NUMBER: 2002:60186 BIOSIS  
DOCUMENT NUMBER: PREV200200060186  
TITLE: Nucleic acid mediated electron transfer.  
AUTHOR(S): Meade, T. J. [Inventor]; Kayyem, J. F. [Inventor]; Fraser, S. E. [Inventor]  
CORPORATE SOURCE: Altadena, Calif., USA  
ASSIGNEE: CALIFORNIA INSTITUTE OF TECHNOLOGY  
PATENT INFORMATION: US 5591578 Jan. 7, 1997  
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Jan. 7, 1997) Vol. 1194, No. 1, pp. 396. print.  
CODEN: OGUPE7. ISSN: 0098-1133.  
DOCUMENT TYPE: Patent

LANGUAGE: English  
ENTRY DATE: Entered STN: 9 Jan 2002  
Last Updated on STN: 25 Feb 2002

L23 ANSWER 26 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:308082 HCAPLUS  
DOCUMENT NUMBER: 126:287179  
TITLE: Metal complexes as cysteine protease inhibitors  
INVENTOR(S): Grinstaff, Mark W.; Gray, Henry B.; Meade, Thomas J.

PATENT ASSIGNEE(S): California Institute of Technology, USA  
SOURCE: PCT Int. Appl., 64 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9711950	A1	19970403	WO 1996-US15527	19960927
W: AU, CA, IL, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2232821	AA	19970403	CA 1996-2232821	19960927
AU 9673767	A1	19970417	AU 1996-73767	19960927
AU 728515	B2	20010111		
EP 862574	A1	19980909	EP 1996-936017	19960927
R: AT, BE, CH, DE, DK, FR, GB, IT, LI, NL, SE				
JP 11513381	T2	19991116	JP 1996-513680	19960927
IL 123771	A1	20021110	IL 1996-123771	19960927
PRIORITY APPLN. INFO.:			US 1995-4451P	P 19950928
			WO 1996-US15527	W 19960927

OTHER SOURCE(S): MARPAT 126:287179

L23 ANSWER 27 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 97:445185 SCISEARCH

THE GENUINE ARTICLE: XC718

TITLE: Spectroscopy and electrochemistry of cobalt(III) Schiff base complexes

AUTHOR: Bottcher A; Takeuchi T; Hardcastle K I; Meade T J ; Gray H B (Reprint); Cwikel D; Kapon M; Dori Z

CORPORATE SOURCE: CALTECH, BECKMAN INST, PASADENA, CA 91125 (Reprint); CALTECH, BECKMAN INST, PASADENA, CA 91125; TECHNION ISRAEL INST TECHNOL, DEPT CHEM, IL-32000 HAIFA, ISRAEL

COUNTRY OF AUTHOR: USA; ISRAEL

SOURCE: INORGANIC CHEMISTRY, (4 JUN 1997) Vol. 36, No. 12, pp. 2498-2504.

Publisher: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.

ISSN: 0020-1669.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: PHYS

LANGUAGE: English

REFERENCE COUNT: 34

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L23 ANSWER 28 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 97:125497 SCISEARCH

THE GENUINE ARTICLE: WE747

TITLE: Inhibition of zinc fingers by transition metal complexes: Mechanisms and specificity

AUTHOR: Lourie A Y (Reprint); Meade T J  
CORPORATE SOURCE: CALTECH, BECKMAN INST, DEPT BIOL, PASADENA, CA 91125  
COUNTRY OF AUTHOR: USA  
SOURCE: BIOPHYSICAL JOURNAL, (FEB 1997) Vol. 72, No. 2, Part 2,  
pp. MP431-MP431.  
Publisher: BIOPHYSICAL SOCIETY, 9650 ROCKVILLE PIKE,  
BETHESDA, MD 20814-3998.  
ISSN: 0006-3495.  
DOCUMENT TYPE: Conference; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 3

L23 ANSWER 29 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 1997:141641 BIOSIS  
DOCUMENT NUMBER: PREV199799440844  
TITLE: Inhibition of zinc fingers by transition  
metal complexes: Mechanisms and specificity.  
AUTHOR(S): Louie, A. Y.; Meade, T. J.  
CORPORATE SOURCE: Dep. Biol., Beckman Inst., California Inst. Technol.,  
Pasadena, CA 91125, USA  
SOURCE: Biophysical Journal, (1997) Vol. 72, No. 2 PART 2, pp. A99.  
Meeting Info.: 41st Annual Meeting of the Biophysical  
Society. New Orleans, Louisiana, USA. March 2-6, 1997.  
CODEN: BIOJAU. ISSN: 0006-3495.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
Conference; (Meeting Poster)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 2 Apr 1997  
Last Updated on STN: 2 Apr 1997

L23 ANSWER 30 OF 39 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN  
DUPLICATE 5  
ACCESSION NUMBER: 1997-03014 BIOTECHDS  
TITLE: Nucleic acids comprising electron transfer moieties;  
DNA probe hybridization method with improved  
signal-to-noise ratio  
AUTHOR: Meade T J; Kayyem J F; Fraser S E  
PATENT ASSIGNEE: California-Inst. Technol.  
LOCATION: Pasadena, CA, USA.  
PATENT INFO: WO 9640712 19 Dec 1996  
APPLICATION INFO: WO 1996-US9769 7 Jun 1996  
PRIORITY INFO: US 1995-475051 7 Jun 1995  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
OTHER SOURCE: WPI: 1997-099909 [09]

L23 ANSWER 31 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
DUPLICATE 6  
ACCESSION NUMBER: 96:497503 SCISEARCH  
THE GENUINE ARTICLE: UT898  
TITLE: STRUCTURES OF THE MULTIRECEPTOR VAULTED CYCLIDENE  
COMPLEXES  
AUTHOR: ALCOCK N W (Reprint); BUSCH D H; CHMIELEWSKI P J; COLTRAIN  
B K; MEADE T J  
CORPORATE SOURCE: UNIV WARWICK, DEPT CHEM, @ COVENTRY CV4 7AL, W MIDLANDS,  
ENGLAND (Reprint); UNIV KANSAS, DEPT CHEM, LAWRENCE, KS,  
66045  
COUNTRY OF AUTHOR: ENGLAND; USA  
SOURCE: INORGANICA CHIMICA ACTA, (MAY 1996) Vol. 246, No. 1-2, pp.  
109-118.

ISSN: 0020-1693.

DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 22

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

L23 ANSWER 32 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1995:931249 HCAPLUS  
DOCUMENT NUMBER: 123:334352  
TITLE: Nucleic acid mediated electron transfer  
INVENTOR(S): Meade, Thomas J.; Kayyem, Jon F.; Fraser, Scott E.  
PATENT ASSIGNEE(S): California Institute of Technology, USA  
SOURCE: PCT Int. Appl., 58 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9515971	A2	19950615	WO 1994-US13893	19941205
WO 9515971	A3	19950803		
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5591578	A	19970107	US 1993-166036	19931210
CA 2178618	AA	19950615	CA 1994-2178618	19941205
AU 9512152	A1	19950627	AU 1995-12152	19941205
AU 703329	B2	19990325		
EP 733058	A1	19960925	EP 1995-903194	19941205
EP 733058	B1	20020410		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 09506510	T2	19970630	JP 1995-516249	19941205
EP 1172446	A2	20020116	EP 2001-122329	19941205
EP 1172446	A3	20020410		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
AT 215959	E	20020415	AT 1995-903194	19941205
ES 2174917	T3	20021116	ES 1995-903194	19941205
US 5705348	A	19980106	US 1996-709265	19960906
US 5780234	A	19980714	US 1996-709263	19960906
US 6087100	A	20000711	US 1997-946679	19971008
US 6268149	B1	20010731	US 1999-454498	19991206
US 2001034033	A1	20011025	US 2001-866067	20010523
JP 2005013222	A2	20050120	JP 2004-127138	20040422
PRIORITY APPLN. INFO.:			US 1993-166036	A 19931210
			EP 1995-903194	A3 19941205
			JP 1995-516249	A3 19941205
			WO 1994-US13893	W 19941205
			US 1996-709263	A1 19960906
			US 1997-946679	A1 19971008
			US 1999-454498	A1 19991206

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STN  
ACCESSION NUMBER: 93:167335 SCISEARCH  
THE GENUINE ARTICLE: KQ981

TITLE: ELECTRON-TRANSFER MECHANISMS OF SITE-SPECIFIC  
TRANSITION-METAL MODIFIED DUPLEX DNA  
AUTHOR: MEADE T J (Reprint)  
CORPORATE SOURCE: CALTECH, BECKMAN INST, PASADENA, CA, 91125  
COUNTRY OF AUTHOR: USA  
SOURCE: ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, (28  
MAR 1993) Vol. 205, Part 1, pp. 497-INOR.  
ISSN: 0065-7727.  
DOCUMENT TYPE: Conference; Journal  
LANGUAGE: ENGLISH  
REFERENCE COUNT: No References

L23 ANSWER 34 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 7

ACCESSION NUMBER: 90:537227 SCISEARCH  
THE GENUINE ARTICLE: EA488  
TITLE: INCLUSION COMPLEX-FORMATION INVOLVING A NEW CLASS OF  
TRANSITION-METAL HOST  
AUTHOR: MEADE T J; ALCOCK N W; BUSCH D H (Reprint)  
CORPORATE SOURCE: OHIO STATE UNIV, DEPT CHEM, COLUMBUS, OH, 43210  
COUNTRY OF AUTHOR: USA  
SOURCE: INORGANIC CHEMISTRY, (1990) Vol. 29, No. 19, pp. 3766-3776  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 30

L23 ANSWER 35 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 8

ACCESSION NUMBER: 88:2990 SCISEARCH  
THE GENUINE ARTICLE: L3709  
TITLE: ELUCIDATION OF STRUCTURAL RELATIONSHIPS AND ASSIGNMENT OF  
H-1-NMR SPECTRA OF TRANSITION-METAL  
CYCLIDENE COMPLEXES BY 2-D NMR TECHNIQUES  
AUTHOR: MEADE T J; FENDRICK C M; PADOLIK P A; COTTRELL C  
E; BUSCH D H (Reprint)  
CORPORATE SOURCE: OHIO STATE UNIV, DEPT CHEM, COLUMBUS, OH, 43210  
COUNTRY OF AUTHOR: USA  
SOURCE: INORGANIC CHEMISTRY, (1987) Vol. 26, No. 25, pp. 4252-4257  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: PHYS  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 23

L23 ANSWER 36 OF 39 HCPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:77621 HCPLUS  
DOCUMENT NUMBER: 106:77621  
TITLE: Inclusion complexes involving a novel ligand  
superstructure: dioxygen adducts and other  
derivatives of retro-bridged cyclidene iron, cobalt,  
and nickel complexes  
AUTHOR(S): Cameron, James H.; Kojima, Masaaki;  
Korybut-Daszkiewicz, Bohdan; Coltrain, Bradley K.;  
Meade, Thomas J.; Alcock, Nathaniel W.; Busch,  
Daryle H.  
CORPORATE SOURCE: Chem. Dep., Ohio State Univ., Columbus, OH, 43210, USA  
SOURCE: Inorganic Chemistry (1987), 26(3), 427-39  
CODEN: INOCAJ; ISSN: 0020-1669  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L23 ANSWER 37 OF 39 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 9

ACCESSION NUMBER: 1986:299488 BIOSIS  
DOCUMENT NUMBER: PREV198682033394; BA82:33394  
TITLE: HYDROPHOBIC REGIOSPECIFIC GUEST BINDING BY  
TRANSITION-METAL HOST COMPLEXES HAVING  
PERMANENT VOIDS AS REVEALED BY FOURIER TRANSFORM NMR  
RELAXATION STUDIES.  
AUTHOR(S): MEADE T J [Reprint author]; KWIK W-L; HERRON N;  
ALCOCK N W; BUSCH D H  
CORPORATE SOURCE: DEP CHEM, OHIO STATE UNIV, COLUMBUS, OHIO 43210, USA  
SOURCE: Journal of the American Chemical Society, (1986) Vol. 108,  
No. 8, pp. 1954-1962.  
CODEN: JACSAT. ISSN: 0002-7863.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH  
ENTRY DATE: Entered STN: 25 Jul 1986  
Last Updated on STN: 25 Jul 1986

L23 ANSWER 38 OF 39 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:588324 HCAPLUS  
DOCUMENT NUMBER: 103:188324  
TITLE: Inclusion complexes of molecular transition  
metal hosts  
AUTHOR(S): Meade, Thomas J.; Busch, Daryle H.  
CORPORATE SOURCE: Dep. Chem., Ohio State Univ., Columbus, OH, USA  
SOURCE: Progress in Inorganic Chemistry (1985), 33, 59-126  
CODEN: PIOCAR; ISSN: 0079-6379  
DOCUMENT TYPE: Journal; General Review  
LANGUAGE: English

L23 ANSWER 39 OF 39 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

ACCESSION NUMBER: 89:662459 SCISEARCH  
THE GENUINE ARTICLE: YJ517  
TITLE: INCLUSION COMPLEXES OF MOLECULAR-TRANSITION  
METAL HOSTS  
AUTHOR: MEADE T J (Reprint); BUSCH D H  
CORPORATE SOURCE: OHIO STATE UNIV, DEPT CHEM, COLUMBUS, OH, 43210  
COUNTRY OF AUTHOR: USA  
SOURCE: PROGRESS IN INORGANIC CHEMISTRY, (1985) Vol. 33, .  
DOCUMENT TYPE: General Review; Journal  
LANGUAGE: ENGLISH  
REFERENCE COUNT: 371

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(FILE 'HOME' ENTERED AT 09:16:04 ON 15 MAR 2005)

FILE 'STNGUIDE' ENTERED AT 09:16:11 ON 15 MAR 2005

FILE 'HOME' ENTERED AT 09:16:17 ON 15 MAR 2005

FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,  
LIFESCI' ENTERED AT 09:16:35 ON 15 MAR 2005

L1 1014856 S ELECTRODE?  
L2 426083 S ARRAY?  
L3 0 S "SOLVENT ACCESSIBLE TRANSITION METAL"  
L4 4759 S "SOLVENT ACCESSIBLE"  
L5 250193 S TRANSITION (A)METAL  
L6 6 S L4 AND L5

L7 5 DUP REM L6 (1 DUPLICATE REMOVED)  
L8 0 S LIOGAND?  
L9 1100976 S LIGAND?  
L10 22884 S L1 AND L2  
L11 188 S L10 AND L9  
L12 12 S L5 AND L11  
L13 11 DUP REM L12 (1 DUPLICATE REMOVED)  
L14 250194 S L10 AND L4 OR L5  
L15 45954 S L9 AND L14  
L16 475804 S MONOLAYER OR OLIGOMER?  
L17 711 S L15 AND L16  
L18 261283 S REDOX  
L19 43 S L17 AND L18  
L20 41 DUP REM L19 (2 DUPLICATES REMOVED)  
E MEADE J M/AU  
E MEADE T J/AU  
L21 1403 S E3-E12  
L22 50 S L5 AND L21  
L23 39 DUP REM L22 (11 DUPLICATES REMOVED)

	<b>L #</b>	<b>Hits</b>	<b>Search Text</b>
1	L1	1	"6013459".pn.
2	L2	1	"6013170".pn.
3	L3	1	"6248229".pn.
4	L4	45573 4	electrode\$2
5	L5	51284 6	array\$2
6	L6	45722	14 same 15
7	L7	39519 0	transition
8	L8	346	16 same 17
9	L9	31178	redox
10	L10	7	18 same 19
11	L11	10310 9	ligand\$2
12	L12	0	18 same 111
13	L14	0	17 same 113
14	L15	56684 5	solvent
15	L16	1	113 same 115
16	L13	123	16 same 111
17	L17	3212	MEADE
18	L18	93	16 and 117

	Issue Date	Pages	Document ID	Title
1	20041202	20	US 20040241738 A1	Detection of binding reactions using labels detected by mediated catalytic electrochemistry
2	20030911	29	US 20030168338 A1	Electrodeposition of redox polymers and co-electrodeposition of enzymes by coordinative crosslinking
3	20020627	37	US 20020081588 A1	Multi-sensor array for electrochemical recognition of nucleotide sequences and methods
4	20020328	24	US 20020037530 A1	Detection of binding reactions using labels detected by mediated catalytic electrochemistry
5	20020124	15	US 20020008038 A1	Combinatorial Electrochemical Synthesis
6	20020212	25	US 6346387 B1	Detection of binding reactions using labels detected by mediated catalytic electrochemistry
7	19991019	22	US 5968745 A	Polymer-electrodes for detecting nucleic acid hybridization and method of use thereof

	<b>Issue Date</b>	<b>Pages</b>	<b>Document ID</b>	<b>Title</b>
1	20020813	22	US 6432723 B1	Biosensors utilizing ligand induced conformation changes

	Issue Date	Pages	Document ID	Title
1	20050310	141	US 20050053962 A1	Amplification of nucleic acids with electronic detection
2	20050303	57	US 20050048498 A1	Compositions, methods, and kits for assembling probes
3	20050106	76	US 20050003399 A1	Binding acceleration techniques for the detection of analytes
4	20050106	70	US 20050003398 A1	Target analyte detection using asymmetrical self-assembled monolayers
5	20041209	16	US 20040244831 A1	Stepwise fabrication of molecular-based, cross linked, light harvesting arrays
6	20041125	27	US 20040235184 A1	Reversible resistivity-based sensors
7	20041118	35	US 20040229269 A1	Hybridization-mediated analysis of polymorphisms
8	20041118	120	US 20040229222 A1	P450 single nucleotide polymorphism biochip analysis
9	20041014	23	US 20040203074 A1	Scaffold-organized metal, alloy, semiconductor and/or magnetic clusters and electronic devices made using such clusters
10	20041007	41	US 20040197909 A1	Parallel macromolecular delivery and biochemical/electrochemical interface to cells employing nanostructures
11	20040930	90	US 20040189311 A1	Assay cartridges and methods of using the same
12	20040826	37	US 20040166673 A1	Scaffold-organized clusters and electronic devices made using such clusters

	Issue Date	Pages	Document ID	Title
13	20040729	82	US 20040146909 A1	Signal detection techniques for the detection of analytes
14	20040729	52	US 20040146899 A1	Tissue collection devices containing biosensors
15	20040708	37	US 20040132122 A1	Multianalyte molecular analysis using application-specific random particle arrays
16	20040708	27	US 20040129579 A1	Photonic signal reporting of electrochemical events
17	20040617	18	US 20040115679 A1	Apparatus for detecting interactions between biopolymer and ligand and method thereof
18	20040318	112	US 20040053290 A1	Devices and methods for biochip multiplexing
19	20040304	13	US 20040043427 A1	Molecular bioswitch for detecting protein interactions using electrical conductivity
20	20040205	33	US 20040023266 A1	Methods and compositions for aptamers against anthrax
21	20040205	20	US 20040023265 A1	Methods and compositions for nucleic acid ligands against Shiga toxin and/or Shiga-like toxin
22	20040129	40	US 20040018611 A1	Microfluidic devices for high gradient magnetic separation
23	20040129	13	US 20040018601 A1	Method for generating pure populations of mobile membrane-associated biomolecules on supported lipid bilayers
24	20040122	34	US 20040011650 A1	Method and apparatus for manipulating polarizable analytes via dielectrophoresis

	<b>Issue Date</b>	<b>Pages</b>	<b>Document ID</b>	<b>Title</b>
25	20040101	55	US 20040002073 A1	Multiplexed analysis of polymorphic loci by concurrent interrogation and enzyme-mediated detection
26	20031113	17	US 20030211637 A1	Single particle electrochemical sensors and methods of utilization
27	20031030	9	US 20030201175 A1	Small volume electrochemical sensor
28	20031002	22	US 20030186323 A1	Force-regulated molecular recognition switches
29	20030918	50	US 20030175947 A1	Enhanced mixing in microfluidic devices
30	20030911	29	US 20030168338 A1	Electrodeposition of redox polymers and co-electrodeposition of enzymes by coordinative crosslinking
31	20030814	54	US 20030152985 A1	Transient electrical signal based methods and devices for characterizing molecular interaction and/or motion in a sample
32	20030807	26	US 20030148360 A1	Replicable probe array
33	20030724	31	US 20030138845 A1	Protein and peptide sensors using electrical detection methods
34	20030710	44	US 20030127333 A1	Integrated solid-phase hydrophilic matrix circuits and micro-arrays

35	20030626	10	US 20030119208 A1	Electrochemical immunosensor and kit and method for detecting biochemical anylyte using the sensor
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	Issue Date	Pages	Document ID	Title
36	20030619	15	US 20030113229 A1	Method for adhesion of polymers to metal-coated substrates
37	20030619	56	US 20030111108 A1	Convergent synthesis of multiporphyrin light-harvesting rods
38	20030605	19	US 20030104481 A1	Potential masking systems and methods for combinatorial library synthesis
39	20030529	19	US 20030097976 A1	Method of semiconductor nanoparticle synthesis
40	20030522	35	US 20030096418 A1	Biosensor arrays and methods
41	20030424	39	US 20030077625 A1	Particles by facile ligand exchange reactions
42	20030424	61	US 20030075216 A1	Synthesis of perylene-porphyrin building blocks and polymers thereof for the production of light-harvesting arrays
43	20030403	42	US 20030064507 A1	System and methods for mixing within a microfluidic device
44	20030320	13	US 20030054344 A1	Method for generating ultra-fine spotted arrays
45	20030313	64	US 20030050438 A1	Electrochemical solid phase synthesis
46	20030313	64	US 20030050437 A1	Electrochemical solid phase synthesis
47	20030306	36	US 20030044997 A1	Biological material detection element, biological material detection method and apparatus, charged material moving apparatus
48	20030227	24	US 20030040173 A1	Fabrication of molecular scale devices using fluidic assembly

	Issue Date	Pages	Document ID	Title
49	20030213	19	US 20030032205 A1	Potential masking systems and methods for combinatorial library synthesis
50	20030130	47	US 20030022393 A1	Array cytometry
51	20021212	93	US 20020185173 A1	Solar cells incorporating light harvesting arrays
52	20021205	24	US 20020179448 A1	Integrated electrokinetic devices and methods of manufacture
53	20021128	93	US 20020177135 A1	Devices and methods for biochip multiplexing
54	20021107	26	US 20020164593 A1	Assays for measuring nucleic acid damaging activities
55	20021024	54	US 20020155476 A1	Transient electrical signal based methods and devices for characterizing molecular interaction and/or motion in a sample
56	20021010	24	US 20020146742 A1	Scaffold-organized metal, alloy, semiconductor and/or magnetic clusters and electronic devices made using such clusters
57	20021010	26	US 20020146722 A1	Assays for measuring nucleic acid binding proteins and enzyme activities
58	20020905	49	US 20020123078 A1	Array cytometry
59	20020905	70	US 20020121314 A1	Target analyte detection using asymmetrical self-assembled monolayers

60	20020711	30	US 20020090649 A1	High density column and row addressable electrode arrays
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	Issue Date	Pages	Document ID	Title
61	20020711	34	US 20020090632 A1	Redox reversible bipyridyl-osmium complex conjugates
62	20020321	140	US 20020034757 A1	Single-molecule selection methods and compositions therefrom
63	20020321	16	US 20020033345 A1	Detection of analytes using reorganization energy
64	20020321	41	US 20020033192 A1	Trans beta substituted chlorins and methods of making and using the same
65	20020221	104	US 20020022261 A1	Miniaturized genetic analysis systems and methods
66	20020207	37	US 20020016306 A1	Scaffold-organized clusters and electronic devices made using such clusters
67	20020131	43	US 20020012943 A1	ELECTROCHEMICAL PROBES FOR DETECTION OF MOLECULAR INTERACTIONS AND DRUG DISCOVERY
68	20020124	35	US 20020009810 A1	ELECTRONICS METHODS FOR THE DETECTION OF ANALYTES
69	20041221	53	US 6833267 B1	Tissue collection devices containing biosensors
70	20041214	9	US 6830668 B2	Small volume electrochemical sensor
71	20040727	30	US 6767733 B1	Portable biosensor apparatus with controlled flow
72	20040713	129	US 6762025 B2	Single-molecule selection methods and compositions therefrom
73	20040713	77	US 6761816 B1	Printed circuit boards with monolayers and capture ligands
74	20040622	68	US 6753143 B2	Target analyte detection using asymmetrical self-assembled monolayers

	Issue Date	Pages	Document ID	Title
75	20040525	85	US 6740518 B1	Signal detection techniques for the detection of analytes
76	20040504	35	US 6730537 B2	Scaffold-organized clusters and electronic devices made using such clusters
77	20040302	35	US 6699719 B2	Biosensor arrays and methods
78	20040203	78	US 6686193 B2	High throughput method and system for screening candidate compounds for activity against target ion channels
79	20040203	144	US 6686150 B1	Amplification of nucleic acids with electronic detection
80	20040106	24	US 6673542 B2	Assays for measuring nucleic acid damaging activities
81	20030805	54	US 6603070 B2	Convergent synthesis of multiporphyrin light-harvesting rods
82	20030805	16	US 6602400 B1	Method for enhanced bio-conjugation events
83	20030729	91	US 6600026 B1	Electronic methods for the detection of analytes utilizing monolayers
84	20030722	92	US 6596935 B2	Solar cells incorporating light harvesting arrays
85	20030527	30	US 6569630 B1	Methods and compositions for aptamers against anthrax
86	20030506	38	US 6559374 B2	Trans beta substituted chlorins and methods of making and using the same
87	20030401	49	US 6541617 B1	Detection of target analytes using particles and electrodes
88	20030107	23	US 6503452 B1	Biosensor arrays and methods

	Issue Date	Pages	Document ID	Title
89	20021022	19	US 6468806 B1	Potential masking systems and methods for combinatorial library synthesis
90	20020903	62	US 6444111 B1	Electrochemical solid phase synthesis of polymers
91	20020813	22	US 6432723 B1	Biosensors utilizing ligand induced conformation changes
92	20020716	95	US 6420648 B1	Light harvesting arrays
93	20020618	92	US 6407330 B1	Solar cells incorporating light harvesting arrays
94	20020514	44	US 6387707 B1	Array Cytometry
95	20020305	34	US 6352824 B1	Redox reversible bipyridyl-osmium complex conjugates
96	20011106	25	US 6312896 B1	Assays for measuring nucleic acid binding proteins and enzyme activities
97	20011023	41	US 6306584 B1	Electronic-property probing of biological molecules at surfaces
98	20011016	45	US 6303316 B1	Organic semiconductor recognition complex and system
99	20010925	34	US 6294062 B1	Method and device for electrochemical immunoassay of multiple analytes
100	20010918	66	US 6290839 B1	Systems for electrophoretic transport and detection of analytes
101	20010911	131	US 6287765 B1	Methods for detecting and identifying single molecules
102	20010828	61	US 6280595 B1	Electrochemical solid phase synthesis
103	20010724	75	US 6264825 B1	Binding acceleration techniques for the detection of analytes

	Issue Date	Pages	Document ID	Title
104	20010717	33	US 6262264 B1	Redox reversible imidazole osmium complex conjugates
105	20010619	25	US 6248229 B1	Detection of analytes using reorganization energy
106	20010508	20	US 6228326 B1	Arrays of independently-addressable supported fluid bilayer membranes
107	20010501	9	US 6224935 B1	Ordered arrays via metal-initiated self-assembly of ligand containing dendrimers and bridging ligands
108	20010410	23	US 6214552 B1	Assays for measuring nucleic acid damaging activities
109	20010102	99	US 6168948 B1	Miniaturized genetic analysis systems and methods
110	20001010	21	US 6130037 A	Biosensor device and method
111	20000822	22	US 6107080 A	Biosensor device and method
112	20000725	63	US 6093302 A	Electrochemical solid phase synthesis
113	20000606	27	US 6071394 A	Channel-less separation of bioparticles on a bioelectronic chip by dielectrophoresis
114	20000111	18	US 6013459 A	Detection of analytes using reorganization energy
115	20000111	19	US 6013170 A	Detection of analytes using reorganization energy
116	19991130	20	US 5993631 A	Methods of analysis/separation
117	19990921	22	US 5955379 A	Biosensor device and method
118	19981103	21	US 5830341 A	Electrodes and metallo isoindole ringed compounds
119	19980818	20	US 5795453 A	Electrodes and metallo isoindole ringed compounds

	<b>Issue Date</b>	<b>Pages</b>	<b>Document ID</b>	<b>Title</b>
120	19980414	8	US 5739039 A	Microelectrodes and amperometric assays
121	19970805	24	US 5653859 A	Methods of analysis/separation
122	19970603	11	US 5635054 A	Microelectrodes and amperometric assays
123	19960430	9	US 5512489 A	Microelectrodes and amperometric assays

	Issue Date	Pages	Document ID	Title
1	20050310	141	US 20050053962 A1	Amplification of nucleic acids with electronic detection
2	20050203	22	US 20050023155 A1	Protein and peptide sensors using electrical detection methods
3	20050106	13	US 20050003429 A1	Electro-optical devices and methods for hybridization and detection
4	20050106	76	US 20050003399 A1	Binding acceleration techniques for the detection of analytes
5	20050106	70	US 20050003398 A1	Target analyte detection using asymmetrical self-assembled monolayers
6	20041028	47	US 20040213910 A1	Modification of silicon-containing scanning probe microscopy tips and growth of oligo- or poly (ethylene glycol) films on silicon surfaces through formation of Si-C bonds
7	20040902	13	US 20040171057 A1	Electro-optical devices and methods for hybridization and detection
8	20040812	32	US 20040157319 A1	Molecular wire injection sensors
9	20040729	82	US 20040146909 A1	Signal detection techniques for the detection of analytes
10	20040401	54	US 20040063126 A1	Electrochemical sensor using intercalative, redox-active moieties
11	20040129	13	US 20040018612 A1	Electro-optical devices and methods for hybridization and detection

	Issue Date	Pages	Document ID	Title
12	20031113	35	US 20030209432 A1	Methods and compositions relating to electrical detection of nucleic acid reactions
13	20030724	31	US 20030138845 A1	Protein and peptide sensors using electrical detection methods
14	20030619	38	US 20030113740 A1	Oligonucleotide-modified ROMP polymers and co-polymers
15	20030605	48	US 20030102854 A1	Particle impedance sensor
16	20030508	99	US 20030087228 A1	ELECTRONIC DETECTION OF NUCLEIC ACIDS USING MONOLAYERS
17	20030417	31	US 20030073122 A1	Methods for determination of single nucleic acid polymorphisms using a bioelectronic microchip
18	20030102	19	US 20030004439 A1	Intrabody HIFU applicator
19	20030102	70	US 20030003473 A1	Electrodes linked via conductive oligomers to nucleic acids
20	20021128	47	US 20020177695 A1	Nucleic acid probes and methods
21	20021107	13	US 20020164599 A1	Electro-optical device and methods for hybridization and detection
22	20021010	48	US 20020146716 A1	Electrochemical sensor using intercalative, redox-active moieties
23	20020905	70	US 20020121314 A1	Target analyte detection using asymmetrical self-assembled monolayers
24	20020822	45	US 20020115098 A1	Methods and apparatus for detecting variants utilizing base stacking

	Issue Date	Pages	Document ID	Title
25	20020711	31	US 20020090613 A1	COLOR-ENCODING AND IN-SITU INTERROGATION OF MATRIX-COUPLED CHEMICAL COMPOUNDS
26	20020509	26	US 20020055103 A1	Electrochemical sensor using intercalative, redox-active moieties
27	20020502	25	US 20020051975 A1	REPORTERLESS GENOSENSORS USING ELECTRICAL DETECTION METHODS
28	20020321	16	US 20020033345 A1	Detection of analytes using reorganization energy
29	20020207	33	US 20020015963 A1	Molecular wire injection sensors
30	20020124	35	US 20020009810 A1	ELECTRONICS METHODS FOR THE DETECTION OF ANALYTES
31	20020117	117	US 20020006643 A1	AMPLIFICATION OF NUCLEIC ACIDS WITH ELECTRONIC DETECTION
32	20010906	35	US 20010019037 A1	Three dimensionally periodic structural assemblies on nanometer and longer scales
33	20010816	31	US 20010014449 A1	METHODS FOR DETERMINATION OF SINGLE NUCLEIC ACID POLYMORPHISMS USING BIOELECTRONIC MICROCHIP
34	20050104	21	US 6838053 B2	Platinum silicide permeation layer device with microlocations
35	20041221	53	US 6833267 B1	Tissue collection devices containing biosensors
36	20041130	39	US 6824974 B2	Electronic detection of biological molecules using thin layers
37	20041130	14	US 6824669 B1	Protein and peptide sensors using electrical detection methods

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38	20041012	15	US 6804283 B2	Compact electrically and optically pumped multi-wavelength nanocavity laser, modulator and detector arrays and method of making the same
39	20040713	129	US 6762025 B2	Single-molecule selection methods and compositions therefrom
40	20040713	77	US 6761816 B1	Printed circuit boards with monolayers and capture ligands
41	20040629	12	US 6756223 B2	Electro-chemical analysis device with integrated thermal sensor and method for monitoring a sample using the device
42	20040622	42	US 6753148 B2	Methods and apparatus for detecting variants utilizing base stacking
43	20040622	68	US 6753143 B2	Target analyte detection using asymmetrical self-assembled monolayers
44	20040525	85	US 6740518 B1	Signal detection techniques for the detection of analytes
45	20040504	35	US 6730537 B2	Scaffold-organized clusters and electronic devices made using such clusters
46	20040427	77	US 6728129 B2	Multistate triple-decker dyads in three distinct architectures for information storage applications
47	20040309	54	US 6703819 B2	Particle impedance sensor
48	20040302	36	US 6699667 B2	Molecular wire injection sensors
49	20040203	144	US 6686150 B1	Amplification of nucleic acids with electronic detection

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50	20031230	48	US 6670127 B2	Method for assembly of a polynucleotide encoding a target polypeptide
51	20031202	65	US 6657884 B2	High density non-volatile memory device
52	20031118	60	US 6649350 B2	Electrochemical sensor using intercalative, redox-active moieties
53	20030805	16	US 6602400 B1	Method for enhanced bio-conjugation events
54	20030729	91	US 6600026 B1	Electronic methods for the detection of analytes utilizing monolayers
55	20030401	49	US 6541617 B1	Detection of target analytes using particles and electrodes
56	20030211	10	US 6518024 B2	Electrochemical detection of single base extension
57	20030211	35	US 6517763 B1	Three dimensionally periodic structural assemblies in nanometer and longer scales
58	20021217	76	US 6495323 B1	AC methods for the detection of nucleic acids
59	20021112	39	US 6479240 B1	Electrodes linked via conductive oligomers to nucleic acids
60	20021022	25	US 6468785 B1	Doped conducting polymers applications and methods
61	20021022	34	US 6468742 B2	Methods for determination of single nucleic acid polymorphisms using bioelectronic microchip
62	20021008	37	US 6461820 B1	Electrochemical sensor using intercalative, redox-active moieties
63	20020903	42	US 6444423 B1	Nucleosides comprising polydentate ligands

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64	20020903	62	US 6444111 B1	Electrochemical solid phase synthesis of polymers
65	20020813	22	US 6432723 B1	Biosensors utilizing ligand induced conformation changes
66	20020528	42	US 6395493 B1	Methods and apparatus for determination of length polymorphisms in DNA
67	20020212	25	US 6346387 B1	Detection of binding reactions using labels detected by mediated catalytic electrochemistry
68	20011204	34	US 6326215 B1	Molecular wire injection sensors
69	20011127	47	US 6324091 B1	Tightly coupled porphyrin macrocycles for molecular memory storage
70	20011023	41	US 6306584 B1	Electronic-property probing of biological molecules at surfaces
71	20010918	14	US 6291188 B1	Metallic solid supports modified with nucleic acids
72	20010918	66	US 6290839 B1	Systems for electrophoretic transport and detection of analytes
73	20010911	45	US 6288221 B1	Methods of synthesis of halogen base-modified oligonucleotides and subsequent labeling with a metal-catalyzed reaction
74	20010911	131	US 6287765 B1	Methods for detecting and identifying single molecules
75	20010828	61	US 6280595 B1	Electrochemical solid phase synthesis
76	20010724	75	US 6264825 B1	Binding acceleration techniques for the detection of analytes

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77	20010717	35	US 6261469 B1	Three dimensionally periodic structural assemblies on nanometer and longer scales
78	20010619	25	US 6248229 B1	Detection of analytes using reorganization energy
79	20010515	84	US 6232062 B1	AC methods for the detection of nucleic acids
80	20010424	29	US 6221586 B1	Electrochemical sensor using intercalative, redox-active moieties
81	20010424	40	US 6221583 B1	Methods of detecting nucleic acids using electrodes
82	20010327	49	US 6207373 B1	Methods for determining nature of repeat units in DNA
83	20000801	40	US 6096273 A	Electrodes linked via conductive oligomers to nucleic acids
84	20000718	80	US 6090933 A	Methods of attaching conductive oligomers to electrodes
85	20000516	95	US 6063573 A	Cycling probe technology using electron transfer detection
86	20000509	33	US 6060327 A	Molecular wire injection sensors
87	20000111	18	US 6013459 A	Detection of analytes using reorganization energy
88	20000111	19	US 6013170 A	Detection of analytes using reorganization energy
89	19991019	22	US 5968745 A	Polymer-electrodes for detecting nucleic acid hybridization and method of use thereof

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90	19990223	11	US 5874046 A	Biological warfare agent sensor system employing ruthenium-terminated oligonucleotides complementary to target live agent DNA sequences
91	19910604	38	US 5020540 A	Cardiac biopotential analysis system and method
92	19900515	20	US 4924875 A	Cardiac biopotential analysis system and method
93	19870303	16	US H000235 H	In-situ determination of energy species yields of intense particle beams